

CERTIFICAT DE ETALONARE nr. 09.101.28.03.25

(Calibration Certificate)

Obiect (Object)	Conductometru, de laborator si portabil (Conductometru, de laborator si portabil)	Acest certificat de etalonare documenteaza trasabilitatea rezultatelor prezentate la Sistemul International de Unitati(SI). Trasabilitatea masurarilor este realizata si mentinuta prin etalonari periodice, in conformitate cu SR EN ISO/IEC 17025:2018. Incertitudinea standard de masurare a fost determinata in conformitate cu SR Ghid ISO/IEC 98-3. Este recomandat ca utilizatorul sa asigure reetalonarea la intervale de timp rezonabile. (This calibration certificate documents the traceability of the presented results to the International System of Units(SI). The measurement traceability is achieved and maintained by periodically calibrations, according to SR EN ISO/IEC 17025:2018. The standard uncertainty of measurement has been determined according to SR Guide ISO/IEC 98-3. It is recommended to the user to assure the recalibration at reasonable time intervals.)
Fabricant (Manufacturer)	METTLER TOLEDO GmbH - Elvetia	
Tip (Type)	Seven2Go sonda InLab 741-ISM	
Serie (Serial number)	B632846224	
Client (Customer)	LABORATORIUM SRL Str. Baia nr.16, sector 1, Bucuresti	
Comanda nr. (Order No.)	560-087/28.03.2025	
Numar de pagini (Number of pages)	2	
Data etalonarii (Date of calibration)	28-03-2025	

Stampila

(Seal)



Data

(Date of issue)

28-03-2025

Sef de laborator

(Head of the laboratory)

Tomescu Manole



Executant etalonare

(Person performing the calibration)

Lisenchi Valeria



SC METROCERT UMITEMP SRL

Str. Munteniei, Nr. 53, Otopeni, Ilfov, 075100

Tel: 021 255 07 27, mobil: 0723 662 552, fax: 0371 605 973

E-mail: office@metrocert.ro, Web: www.metrocert.ro

CUI: RO 19163769

Reg.Com.: J40 / 17665 / 2006

Cont: RO64RNCB0078065501010001

Banca Comerciala Romana

Nota: Acest certificat de etalonare nu poate fi reprodus decat in totalitate. Certificatul de etalonare fara semnături si stampila nu este valabil.

Etalonare efectuata sub certificare ISO 17025:2018. La etalonare au fost utilizate proceduri validate si etaloane cu trasabilitate la SI

(Note: This calibration certificate may not be reproduced other than in full. Calibration certificate without signature and seal is not valid.

CERTIFICAT DE ETALONARE nr. 09.101.28.03.25

(Calibration Certificate)

Descriere obiect (Object description)	Conductometru, de laborator si portabil - interval nominal: 0.001 .. 500 $\mu\text{S/cm}$ - diviziune/rez.: 0.01 $\mu\text{S/cm}$ - toleranta: 0.1%		
Metoda de etalonare (Calibration method)	Masurare directa conform procedurii de etalonare: PE-34.13 , Ed1,Rev 0		
Etalonul utilizat/nr. (Measurement standards)	Termometru digital , Model:735-2, Seria: 01878117/007//01861185/007, CE: 05-00046-01.2025, exp la: 14-01-2027, emis de: SC METRON SERV SRL, MRC PENTRU CONDUCTIVITATE ELECTROLITICA , Model:Solutii etalon de lucru de conductivitate electrolitica 109 $\mu\text{S/cm}$, Seria: C100-01-24, CE: 05.02-246/2024, exp la: 12-05-2025, emis de: INM, MRC PENTRU CONDUCTIVITATE ELECTROLITICA , Model:Solutii etalon de lucru de conductivitate electrolitica 414 $\mu\text{S/cm}$, Seria: C500-01-24, CE: 05.02-246/2024, exp la: 12-05-2025, emis de: INM, MRC PENTRU CONDUCTIVITATE ELECTROLITICA , Model:Solutii etalon de lucru de conductivitate electrolitica 1412 $\mu\text{S/cm}$, Seria: C1500-01-24, CE: 05.02-246/2024, exp la: 12-05-2025, emis de: INM		
Locul etalonarii (Place used for calibration)	Laborator Metrocert Umitemp SRL - Otopeni, jud. Ilfov, str. Munteniei 53		
Conditii de masurare (Measurement conditions)	-		
Conditii de referinta (Order No.)	Temperatura mediului ambiant: (23 ± 2) C Umiditatea relativa a aerului: 75 % Presiune atmosferica: (960 ± 100) hPa		
Conditii de mediu (Environmental conditions)	Temperatura mediului ambiant: 21.2°C; Umiditatea relativa: 43.4 %; Presiune atmosferica: 1008.4 hPa		
Reglarea obiectului (Instrument adjustment)	-		
Rezultatele etalonarii (Calibration results)	Nota: Rezultatele etalonarii se refera numai la obiectul etalonat. (Note : The calibration results refer only to the object to be calibrated)		
Conductivitate			
Valoarea de referinta $\mu\text{S/cm}$	Valoarea medie indicata $\mu\text{S/cm}$	Corectia $\mu\text{S/cm}$	Incertitudinea de masurare $\mu\text{S/cm}$
166.667	166.655	0.01	36.23
333.334	333.276	0.06	42.07
500	499.877	0.1	47.9
Incertitudinea de masurare (Calibration results)	- conform tabel Incertitudinea declarata este incertitudinea extinsa, obtinuta prin multiplicarea incertitudinii standard a masurarii cu factorul de extindere $k=2$ care, pentru o distributie normala, corespunde la un nivel de incredere de aproximativ 95 %. (The uncertainty stated is the expanded uncertainty, obtained by multiplying the standard uncertainty by the coverage factor $k=2$, which for a normal distribution corresponds to a confidence level of approximately 95%)		
Conformitatea cu o specificatie (Compliance with a specification)	-		
Informatii (Additional information)	- Se recomanda reetalonarea inainte de 27.03.2026		

Executant etalonare
(Person performing the calibration)

Lisenchi Valeria

Incheierea certificatului de etalonare
(End of calibration certificate)

Nota: Acest certificat de etalonare nu poate fi reprodus decat in totalitate. Certificatul de etalonare fara semnaturi si stampila nu este valabil.
Etalonare efectuata sub certificare ISO 17025:2018. La etalonare au fost utilizate proceduri validate si etaloane cu trasabilitate la SI
(Note: This calibration certificate may not be reproduced other than in full. Calibration certificate without signature and seal is not valid.
Calibration under ISO 17025:2018. The calibration methods used have been validated and the measurements standards have traceability to SI)

CERTIFICAT DE ETALONARE nr. 05.107.28.03.25

(Calibration Certificate)

Obiect (Object)	Cronometru electronic, portabil (Cronometru)	Acest certificat de etalonare documenteaza trasabilitatea rezultatelor prezentate la Sistemul International de Unitati(SI). Trasabilitatea masurarilor este realizata si mentinuta prin etalonari periodice, in conformitate cu SR EN ISO/IEC 17025:2018. Incertitudinea standard de masurare a fost determinata in conformitate cu SR Ghid ISO/IEC 98-3. Este recomandat ca utilizatorul sa asigure reetalonarea la intervale de timp rezonabile. (This calibration certificate documents the traceability of the presented results to the International System of Units(SI). The measurement traceability is achieved and maintained by periodically calibrations, according to SR EN ISO/IEC 17025:2018. The standard uncertainty of measurement has been determined according to SR Guide ISO/IEC 98-3. It is recommended to the user to assure the recalibration at reasonable time intervals.)
Fabricant (Manufacturer)	SMTWTFS	
Tip (Type)	PC396	
Serie (Serial number)	246	
Client (Customer)	LABORATORIUM SRL Str. Baia nr.16, sector 1, Bucuresti	
Comanda nr. (Order No.)	560-087/28.03.2025	
Numar de pagini (Number of pages)	2	
Data etalonarii (Date of calibration)	28-03-2025	

Stampila

(Seal)



Data

(Date of issue)

28-03-2025

Sef de laborator

(Head of the laboratory)

Tomescu Manole



Executant etalonare

(Person performing the calibration)

Caldarus Valerica- Valentin



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E-mail: office@metrocert.ro, Web: www.metrocert.ro

CUI: RO 19163769

Reg.Com.: J40 / 17665 / 2006

Cont: RO64RNCB0078065501010001

Banca Comerciala Romana

Nota: Acest certificat de etalonare nu poate fi reprodus decat in totalitate. Certificatul de etalonare fara semnaturi si stampila nu este valabil.

Etalonare efectuata sub certificare ISO 17025:2018. La etalonare au fost utilizate proceduri validate si etaloane cu trasabilitate la SI

(Note: This calibration certificate may not be reproduced other than in full. Calibration certificate without signature and seal is not valid.

CERTIFICAT DE ETALONARE nr. 05.107.28.03.25

(Calibration Certificate)

Descriere obiect
(Object description) Cronometru
- interval nominal: 1 .. 3600 secunde
- diviziune/rez.: 0.01 secunde
- toleranta: ± 0.01 secunde

Metoda de etalonare
(Calibration method) Masurare directa conform procedurii de etalonare: PE-21.15, Ed 2, Rev 0, Ex 1

Etalonul utilizat/nr.
(Measurement standards) **Frecventmetru electronic**, Model:E 0204, Seria: 56670, CE: E-001-12.04.24, exp la: 11-04-2027, emis de: SIMAR, **Cronometru electronic**, Model:HITRAX GO, Seria: 02/2021, CE: 05.101.14.02.25, exp la: 13-02-2027, emis de: SC METROCERT UMITEMP SRL

Locul etalonarii
(Place used for calibration) Laborator Metrocert Umitemp SRL - Otopeni, jud. Ilfov, str. Munteniei 53

Conditii de masurare
(Measurement conditions) -

Conditii de referinta
(Order No.) Temperatura mediului ambiant: (23 ± 2) C
Umiditatea relativa a aerului: 75 %
Presiune atmosferica: (960 ± 100) hPa

Conditii de mediu
(Environmental conditions) Temperatura mediului ambiant: 21.2°C ;
Umiditatea relativa: 43.4 %;
Presiune atmosferica: 1008.4 hPa

Reglarea obiectului
(Instrument adjustment) -

Rezultatele etalonarii
(Calibration results) Nota: Rezultatele etalonarii se refera numai la obiectul etalonat.
(Note : The calibration results refer only to the object to be calibrated)

Timp

Valoarea de referinta secunde	Valoarea medie indicata secunde	Corectia secunde	Incertitudinea de masurare secunde
1200.667	1200.666	0.00	0.15
2400.333	2400.331	0.00	0.27
3600	3599.998	0.00	0.39

Incertitudinea de masurare
(Calibration results) - conform tabel
Incertitudinea declarata este incertitudinea extinsa, obtinuta prin multiplicarea incertitudinii standard a masurarii cu factorul de extindere $k=2$ care, pentru o distributie normala, corespunde la un nivel de incredere de aproximativ 95 %.
(The uncertainty stated is the expanded uncertainty, obtained by multiplying the standard uncertainty by the coverage factor $k=2$, which for a normal distribution corresponds to a confidence level of approximately 95%)

Conformitatea cu o specificatie
(Compliance with a specification) -

Informatii
(Additional information) - Se recomanda reetalonarea inainte de 27.03.2026

Executant etalonare
(Person performing the calibration)
Caldarus Valerica- Valentin

Incheierea certificatului de etalonare
(End of calibration certificate)

Nota: Acest certificat de etalonare nu poate fi reprodus decat in totalitate. Certificatul de etalonare fara semnaturi si stampila nu este valabil.
Etalonare efectuata sub certificare ISO 17025:2018. La etalonare au fost utilizate proceduri validate si etaloane cu trasabilitate la SI.
(Note: This calibration certificate may not be reproduced other than in full. Calibration certificate without signature and seal is not valid.
Calibration under ISO 17025:2018. The calibration methods used have been validated and the measurements standards have traceability to SI)

CERTIFICAT DE ETALONARE nr. 15.1001.28.03.25

(Calibration Certificate)

Obiect (Object)	Debitmetru aer (Debitmetru aer)	Acest certificat de etalonare documenteaza trasabilitatea rezultatelor prezentate la Sistemul International de Unitati(SI). Trasabilitatea masurarilor este realizata si mentinuta prin etalonari periodice, in conformitate cu SR EN ISO/IEC 17025:2018. Incertitudinea standard de masurare a fost determinata in conformitate cu SR Ghid ISO/IEC 98-3. Este recomandat ca utilizatorul sa asigure reetalonarea la intervale de timp rezonabile. (This calibration certificate documents the traceability of the presented results to the International System of Units(SI). The measurement traceability is achieved and maintained by periodically calibrations, according to SR EN ISO/IEC 17025:2018. The standard uncertainty of measurement has been determined according to SR Guide ISO/IEC 98-3. It is recommended to the user to assure the recalibration at reasonable time intervals.)
Fabricant (Manufacturer)	GTI	
Tip (Type)	3990	
Serie (Serial number)	150255	
Client (Customer)	LABORATORIUM SRL Str. Baia nr.16, sector 1, Bucuresti	
Comanda nr. (Order No.)	560-087/28.03.2025	
Numar de pagini (Number of pages)	2	
Data etalonarii (Date of calibration)	28-03-2025	

Stampila
(Seal)**Data**
(Date of issue)
28-03-2025**Sef de laborator**
(Head of the laboratory)
Tomescu Manole**Executant etalonare**
(Person performing the calibration)
Dragoi Mihail

SC METROCERT UMITEMP SRL CUI: RO 19163769
Str. Munteniei, Nr. 53, Otopeni, Ilfov, 075100 Reg.Com.: J40 / 17665 / 2006
Tel: 021 255 07 27, mobil: 0723 662 552, fax: 0371 605 973 Cont: RO64RNCB0078065501010001
E-mail: office@metrocert.ro, Web: www.metrocert.ro Banca Comerciala Romana

Nota: Acest certificat de etalonare nu poate fi reprodus decat in totalitate. Certificatul de etalonare fara semnaturi si stampila nu este valabil.
Etalonare efectuata sub certificare ISO 17025:2018. La etalonare au fost utilizate proceduri validate si etaloane cu trasabilitate la SI
(Note: This calibration certificate may not be reproduced other than in full. Calibration certificate without signature and seal is not valid.
Calibration under ISO 17025:2018. The calibration methods used have been validated and the measurements standards have traceability to SI)

CERTIFICAT DE ETALONARE nr. 15.1001.28.03.25

(Calibration Certificate)

Descriere obiect (Object description)	Debitmetru aer - interval nominal: 0 .. 28 l/m - diviziune/rez.: 0.1 l/m - toleranta: 1%
Metoda de etalonare (Calibration method)	Masurare directa conform procedurii de etalonare: PE-53.22, Ed 1, Rev. 0
Etalonul utilizat/nr. (Measurement standards)	Debitmetru aer, Model:GCM-B9SA-FN00, Seria: 304831, CE: 15.1003.12.07.24, exp la: 11-07-2026, emis de: SC METROCERT UMITEMP SRL
Locul etalonarii (Place used for calibration)	Laborator Metrocert Umitemp SRL - Otopeni, jud. Ilfov, str. Munteniei 53
Conditii de masurare (Measurement conditions)	-
Conditii de referinta (Order No.)	Temperatura mediului ambiant: (23 ± 2) C Umiditatea relativa a aerului: 75 % Presiune atmosferica: (960 ± 100) hPa
Conditii de mediu (Environmental conditions)	Temperatura mediului ambiant: 21.2°C; Umiditatea relativa: 43.4 %; Presiune atmosferica: 1008.4 hPa
Reglarea obiectului (Instrument adjustment)	-
Rezultatele etalonarii (Calibration results)	Nota: Rezultatele etalonarii se refera numai la obiectul etalonat. (Note : The calibration results refer only to the object to be calibrated)

Debit

Valoarea de referinta l/m	Valoarea medie indicata l/m	Corectia l/m	Incertitudinea de masurare l/m
9.63	9.64	-0.01	0.10
18.87	18.90	-0.03	0.19
27.9	27.97	-0.07	0.28

Incertitudinea de masurare (Calibration results)	- conform tabel Incertitudinea declarata este incertitudinea extinsa, obtinuta prin multiplicarea incertitudinii standard a masurarii cu factorul de extindere k=2 care, pentru o distributie normala, corespunde la un nivel de incredere de aproximativ 95 %. (The uncertainty stated is the expanded uncertainty, obtained by multiplying the standard uncertainty by the coverage factor k=2, which for a normal distribution corresponds to a confidence level of approximately 95%)
Conformitatea cu o specificatie (Compliance with a specification)	-
Informatii (Additional information)	- Se recomanda reetalonarea inainte de 27.03.2026

Executant etalonare
(Person performing the calibration)
Dragoi Mihail

Incheierea certificatului de etalonare
(End of calibration certificate)

Nota: Acest certificat de etalonare nu poate fi reprodus decat in totalitate. Certificatul de etalonare fara semnaturi si stampila nu este valabil.
Etalonare efectuata sub certificare ISO 17025:2018. La etalonare au fost utilizate proceduri validate si etaloane cu trasabilitate la SI.
(Note: This calibration certificate may not be reproduced other than in full. Calibration certificate without signature and seal is not valid.
(Note: This calibration certificate may not be reproduced other than in full. Calibration methods used have been validated and the measurements standards have traceability to SI)

CERTIFICAT DE ETALONARE nr. 01.225.08.04.25

(Calibration Certificate)

Obiect

(Object)

Termohigrometru

(Senzor de temperatura si umiditate)

Fabricant

(Manufacturer)

MADGETECH**Tip**

(Type)

RHTEMP101A**Serie**

(Serial number)

P70679**Client**

(Customer)

LABORATORIUM SRL**Str.Gheorghe Buzoianu nr.17, Loc.Targu
Bujor, Jud.Galati****Comanda nr.**

(Order No.)

522-098/08.04.2025**Numar de pagini**

(Number of pages)

2**Data etalonarii**

(Date of calibration)

08-04-2025

Acest certificat de etalonare documenteaza trasabilitatea rezultatelor prezentate la Sistemul International de Unitati(SI). Trasabilitatea masurarilor este realizata si mentinuta prin etalonari periodice, in conformitate cu SR EN ISO/IEC 17025:2018. Incertitudinea standard de masurare a fost determinata in conformitate cu SR Ghid ISO/IEC 98-3. Este recomandat ca utilizatorul sa asigure reetalonarea la intervale de timp rezonabile.

(This calibration certificate documents the traceability of the presented results to the International System of Units(SI). The measurement traceability is achieved and maintained by periodically calibrations, according to SR EN ISO/IEC 17025:2018. The standard uncertainty of measurement has been determined according to SR Guide ISO/IEC 98-3. It is recommended to the user to assure the recalibration at reasonable time intervals.)

Stampila

(Seal)

**Data**

(Date of issue)

08-04-2025**Sef de laborator**

(Head of the laboratory)

Tomescu Manole**Executant etalonare**

(Person performing the calibration)

Stefan Artemiza-Adriana**SC METROCERT UMITEMP SRL****Str. Munteniei, Nr. 53, Otopeni, Ilfov, 075100****Tel: 021 255 07 27, mobil: 0723 662 552, fax: 0371 605 973****E-mail: office@metrocert.ro, Web: www.metrocert.ro****CUI: RO 19163769****Reg.Com.: J40 / 17665 / 2006****Cont: RO64RNCB0078065501010001****Banca Comerciala Romana**

Nota: Acest certificat de etalonare nu poate fi reprodus decat in totalitate. Certificatul de etalonare fara semnaturi si stampila nu este valabil.
Etalonare efectuata sub certificare ISO 17025:2018. La etalonare au fost utilizate proceduri validate si etaloane cu trasabilitate la SI

(Note: This calibration certificate may not be reproduced other than in full. Calibration certificate without signature and seal is not valid.

Pagina 1 / 2 Calibration under ISO 17025:2018. The calibration methods used have been validated and the measurements standards have traceability to SI

(Page 1 / 2)

cod :F - 02.14 / Ed.4/Rev.0

CERTIFICAT DE ETALONARE nr. 01.225.08.04.25

(Calibration Certificate)

Descriere obiect (Object description)	Senzor de temperatura si umiditate - interval nominal: 0 .. 55 °C / 25 .. 75 %RH - diviziune/rez.: 0.1 °C / 0.1 %RH - toleranta: ±1 °C / ±3 %RH
Metoda de etalonare (Calibration method)	Masurare directa conform procedurii de etalonare: PE-02.12 Ed3,Rev 0 PE-03.12 Ed3,Rev0
Etalonul utilizat/nr. (Measurement standards)	Termometru digital , Model:735-2, Seria: 01878117/007//01861185/007, CE: 05-00046-01.2025, exp la: 14-01-2027, emis de: SC METRON SERV SRL, Higrometru electronic , Model:HMI 41/HMP 46, Seria: C0230024/C0730007, CE: 01.506.14.12.23, exp la: 13-12-2025, emis de: SC METROCERT UMITEMP SRL, Incinta termostata/higrostat , Model:TKG WCL 3M, Seria: 1693-2012, CE: 01.112.01.11.24, exp la: 31-10-2026, emis de: SC METROCERT UMITEMP SRL
Locul etalonarii (Place used for calibration)	Laborator Metrocert Umitemp SRL - Otopeni, jud. Ilfov, str. Munteniei 53
Conditii de masurare (Measurement conditions)	-
Conditii de referinta (Order No.)	Temperatura mediului ambiant: (23 ± 2) °C Umiditatea relativa a aerului: 75 % Presiune atmosferica: (960 ± 100) hPa
Conditii de mediu (Environmental conditions)	Temperatura mediului ambiant: 22.6°C; Umiditatea relativa: 43 %; Presiune atmosferica: 1020.1 hPa
Reglarea obiectului (Instrument adjustment)	-
Rezultatele etalonarii (Calibration results)	Nota: Rezultatele etalonarii se refera numai la obiectul etalonat. (Note : The calibration results refer only to the object to be calibrated)

Temperatura

Valoarea de referinta °C	Valoarea medie indicata °C	Corectia °C	Incertitudinea de masurare °C
15.2	15.26	-0.1	0.9
20.3	20.40	-0.1	0.9
25.1	25.21	-0.1	0.9

Umiditate

Valoarea de referinta %RH	Valoarea medie indicata %RH	Corectia %RH	Incertitudinea de masurare %RH
25.2	25.47	-0.3	2.7
35.2	35.54	-0.3	2.8
55.2	55.75	-0.6	2.9

Incertitudinea de masurare (Calibration results)	- conform tabel Incertitudinea declarata este incertitudinea extinsa, obtinuta prin multiplicarea incertitudinii standard a masurarii cu factorul de extindere k=2 care, pentru o distributie normala, corespunde la un nivel de incredere de aproximativ 95 %. (The uncertainty stated is the expanded uncertainty, obtained by multiplying the standard uncertainty by the coverage factor k=2, which for a normal distribution corresponds to a confidence level of approximately 95%)
Conformitatea cu o specificatie (Compliance with a specification)	-
Informatii (Additional information)	- Se recomanda reetalonarea inainte de 07.04.2026

Executant etalonare
(Person performing the calibration)
Stefan Artemiza-Adriana

Incheierea certificatului de etalonare
(End of calibration certificate)

Nota: Acest certificat de etalonare nu poate fi reprodus decat in totalitate. Certificatul de etalonare fara semnaturi si stampila nu este valabil.
Etalonare efectuata sub certificare ISO 17025:2018. La etalonare au fost utilizate proceduri validate si etaloane cu trasabilitate la SI.
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CERTIFICAT DE ETALONARE nr. 01.226.08.04.25

(Calibration Certificate)

Obiect **Termohigrometru**

(Object)

(Senzor de temperatura si umiditate)

Fabricant **MADGETECH**

(Manufacturer)

Tip **RHTEMP101A**

(Type)

Serie **P70659**

(Serial number)

Client **LABORATORIUM SRL**

(Customer)

**Str.Gheorghe Buzoianu nr.17, Loc.Targu
Bujor, Jud.Galati****Comanda nr.** **522-098/08.04.2025**

(Order No.)

Numar de pagini **2**

(Number of pages)

Data etalonarii **08-04-2025**

(Date of calibration)

Acest certificat de etalonare documenteaza trasabilitatea rezultatelor prezentate la Sistemul International de Unitati(SI). Trasabilitatea masurarilor este realizata si mentinuta prin etalonari periodice, in conformitate cu SR EN ISO/IEC 17025:2018. Incertitudinea standard de masurare a fost determinata in conformitate cu SR Ghid ISO/IEC 98-3. Este recomandat ca utilizatorul sa asigure reetalonarea la intervale de timp rezonabile.

(This calibration certificate documents the traceability of the presented results to the International System of Units(SI). The measurement traceability is achieved and maintained by periodically calibrations, according to SR EN ISO/IEC 17025:2018. The standard uncertainty of measurement has been determined according to SR Guide ISO/IEC 98-3. It is recommended to the user to assure the recalibration at reasonable time intervals.)

Stampila

(Seal)

**Data**

(Date of issue)

08-04-2025

Sef de laborator

(Head of the laboratory)

Tomescu Manole

**Executant etalonare**

(Person performing the calibration)

Stefan Artemiza-Adriana



SC METROCERT UMITEMP SRL

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CUI: RO 19163769

Reg.Com.: J40 / 17665 / 2006

Cont: RO64RNCB0078065501010001

Banca Comerciala Romana

Nota: Acest certificat de etalonare nu poate fi reprodus decat in totalitate. Certificatul de etalonare fara semnaturi si stampila nu este valabil.
Etalonare efectuata sub certificare ISO 17025:2018. La etalonare au fost utilizate proceduri validate si etaloane cu trasabilitate la SI

(Note: This calibration certificate may not be reproduced other than in full. Calibration certificate without signature and seal is not valid.

CERTIFICAT DE ETALONARE nr. 01.226.08.04.25

(Calibration Certificate)

Descriere obiect

(Object description)

Senzor de temperatura si umiditate
- interval nominal: 0 .. 55 °C / 25 .. 75 %RH
- diviziune/rez.: 0.1 °C / 0.1 %RH
- toleranta: ± 1 °C / ± 3 %RH

Metoda de etalonare

(Calibration method)

Masurare directa conform procedurii de etalonare: PE-02.12 Ed3,Rev 0
PE-03.12 Ed3,Rev0

Etalonul utilizat/nr.

(Measurement standards)

Termometru digital, Model:735-2, Seria: 01878117/007//01861185/007, CE: 05-00046-01.2025, exp la: 14-01-2027, emis de: SC METRON SERV SRL, **Higrometru electronic**, Model:HMI 41/HMP 46, Seria: C0230024/C0730007, CE: 01.506.14.12.23, exp la: 13-12-2025, emis de: SC METROCERT UMITEMP SRL, **Incinta termostata/higrostat**, Model:TKG WCL 3M, Seria: 1693-2012, CE: 01.112.01.11.24, exp la: 31-10-2026, emis de: SC METROCERT UMITEMP SRL

Locul etalonarii

(Place used for calibration)

Laborator Metrocert Umitemp SRL - Otopeni, jud. Ilfov, str. Munteniei 53

Conditii de masurare

(Measurement conditions)

-

Conditii de referinta

(Order No.)

Temperatura mediului ambiant: (23 ± 2) °C
Umiditatea relativa a aerului: 75 %
Presiune atmosferica: (960 ± 100) hPa

Conditii de mediu

(Environmental conditions)

Temperatura mediului ambiant: 22.6°C;
Umiditatea relativa: 43 %;
Presiune atmosferica: 1020.1 hPa

Reglarea obiectului

(Instrument adjustment)

-

Rezultatele etalonarii

(Calibration results)

Nota: Rezultatele etalonarii se refera numai la obiectul etalonat.

(Note : The calibration results refer only to the object to be calibrated)

Temperatura

Valoarea de referinta °C	Valoarea medie indicata °C	Corectia °C	Incertitudinea de masurare °C
15.2	15.26	-0.1	0.9
20.1	20.19	-0.1	0.9
25.1	25.21	-0.1	0.9

Umiditate

Valoarea de referinta %RH	Valoarea medie indicata %RH	Corectia %RH	Incertitudinea de masurare %RH
25.2	25.46	-0.3	2.7
35.1	35.46	-0.4	2.8
55.1	55.65	-0.6	2.9

Incertitudinea de masurare

(Calibration results)

- conform tabel

Incertitudinea declarata este incertitudinea extinsa, obtinuta prin multiplicarea incertitudinii standard a masurarii cu factorul de extindere $k=2$ care, pentru o distributie normala, corespunde la un nivel de incredere de aproximativ 95 %.
(The uncertainty stated is the expanded uncertainty, obtained by multiplying the standard uncertainty by the coverage factor $k=2$, which for a normal distribution corresponds to a confidence level of approximately 95%)

Conformitatea cu o specificatie

(Compliance with a specification)

- Se recomanda reetalonarea inainte de 07.04.2026

Informatii

(Additional information)

Executant etalonare

(Person performing the calibration)

Stefan Artemiza-Adriana

Incheierea certificatului de etalonare

(End of calibration certificate)

Nota: Acest certificat de etalonare nu poate fi reprodus decat in totalitate. Certificatul de etalonare fara semnaturi si stampila nu este valabil.
Etalonare efectuata sub certificare ISO 17025:2018. La etalonare au fost utilizate proceduri validate si etaloane cu trasabilitate la SI.
(Note: This calibration certificate may not be reproduced other than in full. Calibration certificate without signature and seal is not valid.
(Note: This calibration certificate may not be reproduced other than in full. Calibration methods used have been validated and the measurements standards have traceability to SI)

CERTIFICAT DE ETALONARE nr. 01.227.08.04.25

(Calibration Certificate)

Obiect **Termohigrometru**

(Object)

(Senzor de temperatura si umiditate)

Fabricant **MADGETECH**

(Manufacturer)

Tip **RHTEMP101A**

(Type)

Serie **P70676**

(Serial number)

Client **LABORATORIUM SRL**

(Customer)

**Str.Gheorghe Buzoianu nr.17, Loc.Targu
Bujor, Jud.Galati****Comanda nr.** **522-098/08.04.2025**

(Order No.)

Numar de pagini **2**

(Number of pages)

Data etalonarii **08-04-2025**

(Date of calibration)

Acest certificat de etalonare documenteaza trasabilitatea rezultatelor prezentate la Sistemul International de Unitati(SI). Trasabilitatea masurarilor este realizata si mentinuta prin etalonari periodice, in conformitate cu SR EN ISO/IEC 17025:2018. Incertitudinea standard de masurare a fost determinata in conformitate cu SR Ghid ISO/IEC 98-3. Este recomandat ca utilizatorul sa asigure reetalonarea la intervale de timp rezonabile.

(This calibration certificate documents the traceability of the presented results to the International System of Units(SI). The measurement traceability is achieved and maintained by periodically calibrations, according to SR EN ISO/IEC 17025:2018. The standard uncertainty of measurement has been determined according to SR Guide ISO/IEC 98-3. It is recommended to the user to assure the recalibration at reasonable time intervals.)

Stampila
(Seal)**Data**
(Date of issue)
08-04-2025**Sef de laborator**
(Head of the laboratory)
Tomescu Manole**Executant etalonare**
(Person performing the calibration)
Stefan Artemiza-Adriana

SC METROCERT UMITEMP SRL
Str. Munteniei, Nr. 53, Otopeni, Ilfov, 075100
Tel: 021 255 07 27, mobil: 0723 662 552, fax: 0371 605 973
E-mail: office@metrocert.ro, Web: www.metrocert.ro

CUI: RO 19163769
Reg.Com.: J40 / 17665 / 2006
Cont: RO64RNCB0078065501010001
Banca Comerciala Romana

Nota: Acest certificat de etalonare nu poate fi reprodus decat in totalitate. Certificatul de etalonare fara semnaturi si stampila nu este valabil.
Etalonare efectuata sub certificare ISO 17025:2018. La etalonare au fost utilizate proceduri validate si etaloane cu trasabilitate la SI

(Note: This calibration certificate may not be reproduced other than in full. Calibration certificate without signature and seal is not valid.
Calibration under ISO 17025:2018. The calibration methods used have been validated and the measurements standards have traceability to SI)

CERTIFICAT DE ETALONARE nr. 01.227.08.04.25

(Calibration Certificate)

Descriere obiect

(Object description)

Senzor de temperatura si umiditate
- interval nominal: 0 .. 55 °C / 25 .. 75 %RH
- diviziune/rez.: 0.1 °C / 0.1 %RH
- toleranta: ± 1 °C / ± 3 %RH

Metoda de etalonare

(Calibration method)

Masurare directa conform procedurii de etalonare: PE-02.12 Ed3, Rev 0
PE-03.12 Ed3, Rev0

Etalonul utilizat/nr.

(Measurement standards)

Termometru digital, Model: 735-2, Seria: 01878117/007//01861185/007, CE: 05-00046-01.2025, exp la: 14-01-2027, emis de: SC METRON SERV SRL, **Higrometru electronic**, Model: HMI 41/HMP 46, Seria: C0230024/C0730007, CE: 01.506.14.12.23, exp la: 13-12-2025, emis de: SC METROCERT UMITEMP SRL, **Incinta termostata/higrostat**, Model: TKG WCL 3M, Seria: 1693-2012, CE: 01.112.01.11.24, exp la: 31-10-2026, emis de: SC METROCERT UMITEMP SRL

Locul etalonarii

(Place used for calibration)

Laborator Metrocert Umitemp SRL - Otopeni, jud. Ilfov, str. Munteniei 53

Conditii de masurare

(Measurement conditions)

-

Conditii de referinta

(Order No.)

Temperatura mediului ambiant: (23 ± 2) °C
Umiditatea relativa a aerului: 75 %
Presiune atmosferica: (960 ± 100) hPa

Conditii de mediu

(Environmental conditions)

Temperatura mediului ambiant: 22.6 °C;
Umiditatea relativa: 43 %;
Presiune atmosferica: 1020.1 hPa

Reglarea obiectului

(Instrument adjustment)

-

Rezultatele etalonarii

(Calibration results)

Nota: Rezultatele etalonarii se refera numai la obiectul etalonat.

(Note : The calibration results refer only to the object to be calibrated)

Temperatura

Valoarea de referinta °C	Valoarea medie indicata °C	Corectia °C	Incertitudinea de masurare °C
15.2	15.27	-0.1	0.9
20.2	20.29	-0.1	0.9
25.1	25.22	-0.1	0.9

Umiditate

Valoarea de referinta %RH	Valoarea medie indicata %RH	Corectia %RH	Incertitudinea de masurare %RH
25.2	25.47	-0.3	2.7
35.2	35.53	-0.3	2.8
55.3	55.86	-0.6	2.9

Incertitudinea de masurare

(Calibration results)

- conform tabel

Incertitudinea declarata este incertitudinea extinsa, obtinuta prin multiplicarea incertitudinii standard a masurarii cu factorul de extindere $k=2$ care, pentru o distributie normala, corespunde la un nivel de incredere de aproximativ 95 %.
(The uncertainty stated is the expanded uncertainty, obtained by multiplying the standard uncertainty by the coverage factor $k=2$, which for a normal distribution corresponds to a confidence level of approximately 95%)

Conformitatea cu o specificatie

(Compliance with a specification)

- Se recomanda reetalonarea inainte de 07.04.2026

Informatii

(Additional information)

Executant etalonare

(Person performing the calibration)

Stefan Artemiza-Adriana

Incheierea certificatului de etalonare

(End of calibration certificate)

Nota: Acest certificat de etalonare nu poate fi reprodus decat in totalitate. Certificatul de etalonare fara semnatura si stampila nu este valabil.
Etalonare efectuata sub certificare ISO 17025:2018. La etalonare au fost utilizate proceduri validate si etaloane cu trasabilitate la SI.
(Note: This calibration certificate may not be reproduced other than in full. Calibration certificate without signature and seal is not valid.
(Note: This calibration certificate may not be reproduced other than in full. Calibration methods used have been validated and the measurements standards have traceability to SI))

CERTIFICAT DE ETALONARE nr. 01.228.08.04.25

(Calibration Certificate)

Obiect **Termohigrometru**

(Object)

(Senzor de temperatura si umiditate)

Fabricant **MADGETECH**

(Manufacturer)

Tip **RHTEMP101A**

(Type)

Serie **P70668**

(Serial number)

Client **LABORATORIU SRL**

(Customer)

**Str.Gheorghe Buzoianu nr.17, Loc.Targu
Bujor, Jud.Galati****Comanda nr.** **522-098/08.04.2025**

(Order No.)

Numar de pagini **2**

(Number of pages)

Data etalonarii **08-04-2025**

(Date of calibration)

Acest certificat de etalonare documenteaza trasabilitatea rezultatelor prezentate la Sistemul International de Unitati(SI). Trasabilitatea masurarilor este realizata si mentinuta prin etalonari periodice, in conformitate cu SR EN ISO/IEC 17025:2018. Incertitudinea standard de masurare a fost determinata in conformitate cu SR Ghid ISO/IEC 98-3. Este recomandat ca utilizatorul sa asigure reetalonarea la intervale de timp rezonabile.

(This calibration certificate documents the traceability of the presented results to the International System of Units(SI). The measurement traceability is achieved and maintained by periodically calibrations, according to SR EN ISO/IEC 17025:2018. The standard uncertainty of measurement has been determined according to SR Guide ISO/IEC 98-3. It is recommended to the user to assure the recalibration at reasonable time intervals.)

Stampila

(Seal)

**Data**

(Date of issue)

08-04-2025

Sef de laborator

(Head of the laboratory)

Tomescu Manole

**Executant etalonare**

(Person performing the calibration)

Stefan Artemiza-Adriana



SC METROCERT UMITEMP SRL

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Tel: 021 255 07 27, mobil: 0723 662 552, fax: 0371 605 973

E-mail: office@metrocert.ro, Web: www.metrocert.ro

CUI: RO 19163769

Reg.Com.: J40 / 17665 / 2006

Cont: RO64RNCB0078065501010001

Banca Comerciala Romana

Nota: Acest certificat de etalonare nu poate fi reprodus decat in totalitate. Certificatul de etalonare fara semnaturi si stampila nu este valabil.
Etalonare efectuata sub certificare ISO 17025:2018. La etalonare au fost utilizate proceduri validate si etaloane cu trasabilitate la SI

(Note: This calibration certificate may not be reproduced other than in full. Calibration certificate without signature and seal is not valid.
Calibration under ISO 17025:2018. The calibration methods used have been validated and the measurements standards have traceability to SI)

CERTIFICAT DE ETALONARE nr. 01.228.08.04.25

(Calibration Certificate)

Descriere obiect

(Object description)

Senzor de temperatura si umiditate
- interval nominal: 0 .. 55 °C / 25 .. 75 %RH
- diviziune/rez.: 0.1 °C / 0.1 %RH
- toleranta: ± 1 °C / ± 3 %RH

Metoda de etalonare

(Calibration method)

Masurare directa conform procedurii de etalonare: PE-02.12 Ed3,Rev 0
PE-03.12 Ed3,Rev0

Etalonul utilizat/nr.

(Measurement standards)

Termometru digital, Model:735-2, Seria: 01878117/007//01861185/007, CE: 05-00046-01.2025, exp la: 14-01-2027, emis de: SC METRON SERV SRL, Higrometru electronic, Model:HMI 41/HMP 46, Seria: C0230024/C0730007, CE: 01.506.14.12.23, exp la: 13-12-2025, emis de: SC METROCERT UMITEMP SRL, Incinta termostata/higrostat, Model:TKG WCL 3M, Seria: 1693-2012, CE: 01.112.01.11.24, exp la: 31-10-2026, emis de: SC METROCERT UMITEMP SRL

Locul etalonarii

(Place used for calibration)

Laborator Metrocert Umitemp SRL - Otopeni, jud. Ilfov, str. Munteniei 53

Conditii de masurare

(Measurement conditions)

-

Conditii de referinta

(Order No.)

Temperatura mediului ambiant: (23 ± 2) °C
Umiditatea relativa a aerului: 75 %
Presiune atmosferica: (960 ± 100) hPa

Conditii de mediu

(Environmental conditions)

Temperatura mediului ambiant: 22.6°C;
Umiditatea relativa: 43 %;
Presiune atmosferica: 1020.1 hPa

Reglarea obiectului

(Instrument adjustment)

-

Rezultatele etalonarii

(Calibration results)

Nota: Rezultatele etalonarii se refera numai la obiectul etalonat.
(Note : The calibration results refer only to the object to be calibrated)

Temperatura

Valoarea de referinta °C	Valoarea medie indicata °C	Corectia °C	Incertitudinea de masurare °C
15.1	15.17	-0.1	0.9
20.2	20.31	-0.1	0.9
25.2	25.32	-0.1	0.9

Umiditate

Valoarea de referinta %RH	Valoarea medie indicata %RH	Corectia %RH	Incertitudinea de masurare %RH
25.1	25.32	-0.2	2.7
35.3	35.64	-0.3	2.8
55.1	55.65	-0.6	2.9

Incertitudinea de masurare

(Calibration results)

- conform tabel
Incertitudinea declarata este incertitudinea extinsa, obtinuta prin multiplicarea incertitudinii standard a masurarii cu factorul de extindere $k=2$ care, pentru o distributie normala, corespunde la un nivel de incredere de aproximativ 95 %.
(The uncertainty stated is the expanded uncertainty, obtained by multiplying the standard uncertainty by the coverage factor $k=2$, which for a normal distribution corresponds to a confidence level of approximately 95%)

Conformitatea cu o specificatie

(Compliance with a specification)

- Se recomanda reetalonarea inainte de 07.04.2026

Informatii

(Additional information)

Executant etalonare
(Person performing the calibration)
Stefan Artemiza-Adriana

Incheierea certificatului de etalonare
(End of calibration certificate)

Nota: Acest certificat de etalonare nu poate fi reprodus decat in totalitate. Certificatul de etalonare fara semnaturi si stampila nu este valabil.
Etalonare efectuata sub certificare ISO 17025:2018. La etalonare au fost utilizate proceduri validate si etaloane cu trasabilitate la SI.
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(Note: This calibration certificate may not be reproduced other than in full. Calibration methods used have been validated and the measurements standards have traceability to SI)

CERTIFICAT DE ETALONARE nr. 01.229.08.04.25

(Calibration Certificate)

Obiect Termohigrometru

(Object)

(Senzor de temperatura si umiditate)

Fabricant MADGETECH

(Manufacturer)

Tip RHTEMP101A

(Type)

Serie S30053

(Serial number)

Client LABORATORIUM SRL

(Customer)

Str.Gheorghe Buzoianu nr.17, Loc.Targu
Bujor, Jud.Galati**Comanda nr.** 522-098/08.04.2025

(Order No.)

Numar de pagini 2

(Number of pages)

Data etalonarii 08-04-2025

(Date of calibration)

Acest certificat de etalonare documenteaza trasabilitatea rezultatelor prezentate la Sistemul International de Unitati(SI). Trasabilitatea masurarilor este realizata si mentinuta prin etalonari periodice, in conformitate cu SR EN ISO/IEC 17025:2018. Incertitudinea standard de masurare a fost determinata in conformitate cu SR Ghid ISO/IEC 98-3. Este recomandat ca utilizatorul sa asigure reetalonarea la intervale de timp rezonabile.

(This calibration certificate documents the traceability of the presented results to the International System of Units(SI). The measurement traceability is achieved and maintained by periodically calibrations, according to SR EN ISO/IEC 17025:2018. The standard uncertainty of measurement has been determined according to SR Guide ISO/IEC 98-3. It is recommended to the user to assure the recalibration at reasonable time intervals.)

Stampila

(Seal)

**Data**

(Date of issue)

08-04-2025

Sef de laborator

(Head of the laboratory)

Tomescu Manole

Executant etalonare

(Person performing the calibration)

Stefan Artemiza-Adriana



SC METROCERT UMITEMP SRL

Str. Munteniei, Nr. 53, Otopeni, Ilfov, 075100

Tel: 021 255 07 27, mobil: 0723 662 552, fax: 0371 605 973

E-mail: office@metrocert.ro, Web: www.metrocert.ro

CUI: RO 19163769

Reg.Com.: J40 / 17665 / 2006

Cont: RO64RNCB0078065501010001

Banca Comerciala Romana

Nota: Acest certificat de etalonare nu poate fi reprodus decat in totalitate. Certificatul de etalonare fara semnaturi si stampila nu este valabil.
Etalonare efectuata sub certificare ISO 17025:2018. La etalonare au fost utilizate proceduri validate si etaloane cu trasabilitate la SI

(Note: This calibration certificate may not be reproduced other than in full. Calibration certificate without signature and seal is not valid.
Calibration under ISO 17025:2018. The calibration methods used have been validated and the measurements standards have traceability to SI)

CERTIFICAT DE ETALONARE nr. 01.229.08.04.25

(Calibration Certificate)

Descriere obiect

(Object description)

Senzor de temperatura si umiditate
- interval nominal: 0 .. 55 °C / 25 .. 75 %RH
- diviziune/rez.: 0.1 °C / 0.1 %RH
- toleranta: ± 1 °C / ± 3 %RH

Metoda de etalonare

(Calibration method)

Masurare directa conform procedurii de etalonare: PE-02.12 Ed3, Rev 0
PE-03.12 Ed3, Rev0

Etalonul utilizat/nr.

(Measurement standards)

Termometru digital, Model:735-2, Seria: 01878117/007//01861185/007, CE: 05-00046-01.2025, exp la: 14-01-2027, emis de: SC METRON SERV SRL, Higrometru electronic, Model:HMI 41/HMP 46, Seria: C0230024/C0730007, CE: 01.506.14.12.23, exp la: 13-12-2025, emis de: SC METROCERT UMITEMP SRL, Incinta termostata/higrostat, Model:TKG WCL 3M, Seria: 1693-2012, CE: 01.112.01.11.24, exp la: 31-10-2026, emis de: SC METROCERT UMITEMP SRL

Locul etalonarii

(Place used for calibration)

Laborator Metrocert Umitemp SRL - Otopeni, jud. Ilfov, str. Munteniei 53

Conditii de masurare

(Measurement conditions)

-

Conditii de referinta

(Order No.)

Temperatura mediului ambiant: (23 ± 2) °C
Umiditatea relativa a aerului: 75 %
Presiune atmosferica: (960 ± 100) hPa

Conditii de mediu

(Environmental conditions)

Temperatura mediului ambiant: 22.6°C;
Umiditatea relativa: 43 %;
Presiune atmosferica: 1020.1 hPa

Reglarea obiectului

(Instrument adjustment)

-

Rezultatele etalonarii

(Calibration results)

Nota: Rezultatele etalonarii se refera numai la obiectul etalonat.
(Note : The calibration results refer only to the object to be calibrated)

Temperatura

Valoarea de referinta °C	Valoarea medie indicata °C	Corectia °C	Incertitudinea de masurare °C
14.8	14.73	0.1	0.9
19.8	19.71	0.1	0.9
24.8	24.68	0.1	0.9

Umiditate

Valoarea de referinta %RH	Valoarea medie indicata %RH	Corectia %RH	Incertitudinea de masurare %RH
25.3	25.04	0.3	2.7
34.8	34.46	0.3	2.8
54.8	54.24	0.6	2.9

Incertitudinea de masurare

(Calibration results)

- conform tabel
Incertitudinea declarata este incertitudinea extinsa, obtinuta prin multiplicarea incertitudinii standard a masurarii cu factorul de extindere $k=2$ care, pentru o distributie normala, corespunde la un nivel de incredere de aproximativ 95 %.
(The uncertainty stated is the expanded uncertainty, obtained by multiplying the standard uncertainty by the coverage factor $k=2$, which for a normal distribution corresponds to a confidence level of approximately 95%)

Conformitatea cu o specificatie

(Compliance with a specification)

-

Informatii

(Additional information)

- Se recomanda reetalonarea inainte de 07.04.2026

Executant etalonare

(Person performing the calibration)

Stefan Artemiza-Adriana

Incheierea certificatului de etalonare
(End of calibration certificate)

Nota: Acest certificat de etalonare nu poate fi reprodus decat in totalitate. Certificatul de etalonare fara semnaturi si stampila nu este valabil.
Etalonare efectuata sub certificare ISO 17025:2018. La etalonare au fost utilizate proceduri validate si etaloane cu trasabilitate la SI

(Note: This calibration certificate may not be reproduced other than in full. Calibration certificate without signature and seal is not valid.
(Note: This calibration certificate may not be reproduced other than in full. Calibration certificate without signature and seal is not valid. Calibration methods used have been validated and the measurements standards have traceability to SI)

CERTIFICAT DE ETALONARE nr. 01.230.08.04.25

(Calibration Certificate)

Obiect

(Object)

Termohigrometru

(Senzor de temperatura si umiditate)

Fabricant

(Manufacturer)

MADGETECH**Tip**

(Type)

RHTEMP101A**Serie**

(Serial number)

S30047**Client**

(Customer)

LABORATORIUM SRL**Str.Gheorghe Buzoianu nr.17, Loc.Targu
Bujor, Jud.Galati****Comanda nr.**

(Order No.)

522-098/08.04.2025**Numar de pagini**

(Number of pages)

2**Data etalonarii**

(Date of calibration)

08-04-2025

Acest certificat de etalonare documenteaza trasabilitatea rezultatelor prezentate la Sistemul International de Unitati(SI). Trasabilitatea masurarilor este realizata si mentinuta prin etalonari periodice, in conformitate cu SR EN ISO/IEC 17025:2018. Incertitudinea standard de masurare a fost determinata in conformitate cu SR Ghid ISO/IEC 98-3. Este recomandat ca utilizatorul sa asigure reetalonarea la intervale de timp rezonabile.

(This calibration certificate documents the traceability of the presented results to the International System of Units(SI). The measurement traceability is achieved and maintained by periodically calibrations, according to SR EN ISO/IEC 17025:2018. The standard uncertainty of measurement has been determined according to SR Guide ISO/IEC 98-3. It is recommended to the user to assure the recalibration at reasonable time intervals.)

Stampila

(Seal)

**Data**

(Date of issue)

08-04-2025**Sef de laborator**

(Head of the laboratory)

Tomescu Manole**Executant etalonare**

(Person performing the calibration)

Stefan Artemiza-Adriana**SC METROCERT UMITEMP SRL****Str. Munteniei, Nr. 53, Otopeni, Ilfov, 075100****Tel: 021 255 07 27, mobil: 0723 662 552, fax: 0371 605 973****E-mail: office@metrocert.ro, Web: www.metrocert.ro****CUI: RO 19163769****Reg.Com.: J40 / 17665 / 2006****Cont: RO64RNCB0078065501010001****Banca Comerciala Romana**

Nota: Acest certificat de etalonare nu poate fi reprodus decat in totalitate. Certificatul de etalonare fara semnaturi si stampila nu este valabil.
Etalonare efectuada sub certificare ISO 17025:2018. La etalonare au fost utilizate proceduri validate si etaloane cu trasabilitate la SI

(Note: This calibration certificate may not be reproduced other than in full. Calibration certificate without signature and seal is not valid.

CERTIFICAT DE ETALONARE nr. 01.230.08.04.25

(Calibration Certificate)

Descriere obiect

(Object description)

Senzor de temperatura si umiditate
- interval nominal: 0 .. 55 °C / 25 .. 75 %RH
- diviziune/rez.: 0.1 °C / 0.1 %RH
- toleranta: ± 1 °C / ± 3 %RH

Metoda de etalonare

(Calibration method)

Masurare directa conform procedurii de etalonare: PE-02.12 Ed3,Rev 0
PE-03.12 Ed3,Rev0

Etalonul utilizat/nr.

(Measurement standards)

Termometru digital, Model:735-2, Seria: 01878117/007//01861185/007, CE: 05-00046-01.2025, exp la: 14-01-2027, emis de: SC METRON SERV SRL, **Higrometru electronic**, Model:HMI 41/HMP 46, Seria: C0230024/C0730007, CE: 01.506.14.12.23, exp la: 13-12-2025, emis de: SC METROCERT UMITEMP SRL, **Incinta termostata/higrostat**, Model:TKG WCL 3M, Seria: 1693-2012, CE: 01.112.01.11.24, exp la: 31-10-2026, emis de: SC METROCERT UMITEMP SRL

Locul etalonarii

(Place used for calibration)

Laborator Metrocert Umitemp SRL - Otopeni, jud. Ilfov, str. Munteniei 53

Conditii de masurare

(Measurement conditions)

-

Conditii de referinta

(Order No.)

Temperatura mediului ambiant: (23 ± 2) °C
Umiditatea relativa a aerului: 75 %
Presiune atmosferica: (960 ± 100) hPa

Conditii de mediu

(Environmental conditions)

Temperatura mediului ambiant: 22.6°C;
Umiditatea relativa: 43 %;
Presiune atmosferica: 1020.1 hPa

Reglarea obiectului

(Instrument adjustment)

-

Rezultatele etalonarii

(Calibration results)

Nota: Rezultatele etalonarii se refera numai la obiectul etalonat.

(Note : The calibration results refer only to the object to be calibrated)

Temperatura

Valoarea de referinta °C	Valoarea medie indicata °C	Corectia °C	Incertitudinea de masurare °C
14.7	14.64	0.1	0.9
19.7	19.62	0.1	0.9
24.8	24.68	0.1	0.9

Umiditate

Valoarea de referinta %RH	Valoarea medie indicata %RH	Corectia %RH	Incertitudinea de masurare %RH
25.3	25.04	0.3	2.7
34.7	34.35	0.4	2.8
54.8	54.26	0.5	2.9

Incertitudinea de masurare

(Calibration results)

- conform tabel

Incertitudinea declarata este incertitudinea extinsa, obtinuta prin multiplicarea incertitudinii standard a masurarii cu factorul de extindere $k=2$ care, pentru o distributie normala, corespunde la un nivel de incredere de aproximativ 95 %.
(The uncertainty stated is the expanded uncertainty, obtained by multiplying the standard uncertainty by the coverage factor $k=2$, which for a normal distribution corresponds to a confidence level of approximately 95%)

Conformitatea cu o specificatie

(Compliance with a specification)

-

Informatii

(Additional information)

- Se recomanda reetalonarea inainte de 07.04.2026

Executant etalonare

(Person performing the calibration)

Stefan Artemiza-Adriana

Incheierea certificatului de etalonare

(End of calibration certificate)

Nota: Acest certificat de etalonare nu poate fi reprodus decat in totalitate. Certificatul de etalonare fara semnatura si stampila nu este valabil.
Etalonare efectuata sub certificare ISO 17025:2018. La etalonare au fost utilizate proceduri validate si etaloane cu trasabilitate la SI.
(Note: This calibration certificate may not be reproduced other than in full. Calibration certificate without signature and seal is not valid.
(Note: This calibration certificate may not be reproduced other than in full. Calibration certificate without signature and seal is not valid.)

CERTIFICAT DE ETALONARE nr. 01.231.08.04.25

(Calibration Certificate)

Obiect Termohigrometru

(Object)

(Senzor de temperatura si umiditate)

Fabricant MADGETECH

(Manufacturer)

Tip RHTEMP101A

(Type)

Serie P70677

(Serial number)

Client LABORATORIUM SRL

(Customer)

Str.Gheorghe Buzoianu nr.17, Loc.Targu
Bujor, Jud.Galati**Comanda nr.** 522-098/08.04.2025

(Order No.)

Numar de pagini 2

(Number of pages)

Data etalonarii 08-04-2025

(Date of calibration)

Acest certificat de etalonare documenteaza trasabilitatea rezultatelor prezentate la Sistemul International de Unitati(SI). Trasabilitatea masurarilor este realizata si mentinuta prin etalonari periodice, in conformitate cu SR EN ISO/IEC 17025:2018. Incertitudinea standard de masurare a fost determinata in conformitate cu SR Ghid ISO/IEC 98-3. Este recomandat ca utilizatorul sa asigure reetalonarea la intervale de timp rezonabile.

(This calibration certificate documents the traceability of the presented results to the International System of Units(SI). The measurement traceability is achieved and maintained by periodically calibrations, according to SR EN ISO/IEC 17025:2018. The standard uncertainty of measurement has been determined according to SR Guide ISO/IEC 98-3. It is recommended to the user to assure the recalibration at reasonable time intervals.)

Stampila
(Seal)**Data**
(Date of issue)
08-04-2025**Sef de laborator**
(Head of the laboratory)
Tomescu Manole**Executant etalonare**
(Person performing the calibration)
Stefan Artemiza-Adriana

SC METROCERT UMITEMP SRL
Str. Munteniei, Nr. 53, Otopeni, Ilfov, 075100
Tel: 021 255 07 27, mobil: 0723 662 552, fax: 0371 605 973
E-mail: office@metrocert.ro, Web: www.metrocert.ro

CUI: RO 19163769
Reg.Com.: J40 / 17665 / 2006
Cont: RO64RNCB0078065501010001
Banca Comerciala Romana

Nota: Acest certificat de etalonare nu poate fi reprodus decat in totalitate. Certificatul de etalonare fara semnaturi si stampila nu este valabil.
Etalonare efectuata sub certificare ISO 17025:2018. La etalonare au fost utilizate proceduri validate si etaloane cu trasabilitate la SI
(Note: This calibration certificate may not be reproduced other than in full. Calibration certificate without signature and seal is not valid.
Calibration under ISO 17025:2018. The calibration methods used have been validated and the measurements standards have traceability to SI)

CERTIFICAT DE ETALONARE nr. 01.231.08.04.25

(Calibration Certificate)

Descriere obiect

(Object description)

Senzor de temperatura si umiditate
- interval nominal: 0 .. 55 °C / 25 .. 75 %RH
- diviziune/rez.: 0.1 °C / 0.1 %RH
- toleranta: ± 1 °C / ± 3 %RH

Metoda de etalonare

(Calibration method)

Masurare directa conform procedurii de etalonare: PE-02.12 Ed3, Rev 0
PE-03.12 Ed3, Rev0

Etalonul utilizat/nr.

(Measurement standards)

Termometru digital, Model:735-2, Seria: 01878117/007//01861185/007, CE: 05-00046-01.2025, exp la: 14-01-2027, emis de: SC METRON SERV SRL, Higrometru electronic, Model:HMI 41/HMP 46, Seria: C0230024/C0730007, CE: 01.506.14.12.23, exp la: 13-12-2025, emis de: SC METROCERT UMITEMP SRL, Incinta termostata/higrostat, Model:TKG WCL 3M, Seria: 1693-2012, CE: 01.112.01.11.24, exp la: 31-10-2026, emis de: SC METROCERT UMITEMP SRL

Locul etalonarii

(Place used for calibration)

Laborator Metrocert Umitemp SRL - Otopeni, jud. Ilfov, str. Munteniei 53

Conditii de masurare

(Measurement conditions)

-

Conditii de referinta

(Order No.)

Temperatura mediului ambiant: (23 ± 2) °C
Umiditatea relativa a aerului: 75 %
Presiune atmosferica: (960 ± 100) hPa

Conditii de mediu

(Environmental conditions)

Temperatura mediului ambiant: 22.6°C;
Umiditatea relativa: 43 %;
Presiune atmosferica: 1020.1 hPa

Reglarea obiectului

(Instrument adjustment)

-

Rezultatele etalonarii

(Calibration results)

Nota: Rezultatele etalonarii se refera numai la obiectul etalonat.
(Note : The calibration results refer only to the object to be calibrated)

Temperatura

Valoarea de referinta °C	Valoarea medie indicata °C	Corectia °C	Incertitudinea de masurare °C
15.3	15.37	-0.1	0.9
20.1	20.19	-0.1	0.9
25.3	25.41	-0.1	0.9

Umiditate

Valoarea de referinta %RH	Valoarea medie indicata %RH	Corectia %RH	Incertitudinea de masurare %RH
25.3	25.54	-0.2	2.7
35.2	35.55	-0.4	2.8
55.2	55.76	-0.6	2.9

Incertitudinea de masurare

(Calibration results)

- conform tabel
Incertitudinea declarata este incertitudinea extinsa, obtinuta prin multiplicarea incertitudinii standard a masurarii cu factorul de extindere $k=2$ care, pentru o distributie normala, corespunde la un nivel de incredere de aproximativ 95 %.
(The uncertainty stated is the expanded uncertainty, obtained by multiplying the standard uncertainty by the coverage factor $k=2$, which for a normal distribution corresponds to a confidence level of approximately 95%)

Conformitatea cu o specificatie

(Compliance with a specification)

-

Informatii

(Additional information)

- Se recomanda reetalonarea inainte de 07.04.2026

Executant etalonare

(Person performing the calibration)

Stefan Artemiza-Adriana

Incheierea certificatului de etalonare

(End of calibration certificate)

Nota: Acest certificat de etalonare nu poate fi reprodus decat in totalitate. Certificatul de etalonare fara semnaturi si stampila nu este valabil.
Etalonare efectuata sub certificare ISO 17025:2018. La etalonare au fost utilizate proceduri validate si etaloane cu trasabilitate la SI.
(Note: This calibration certificate may not be reproduced other than in full. Calibration certificate without signature and seal is not valid.
(Note: This calibration certificate may not be reproduced other than in full. Calibration methods used have been validated and the measurements standards have traceability to SI)

CERTIFICAT DE ETALONARE nr. 01.232.08.04.25

(Calibration Certificate)

Obiect **Termohigrometru**

(Object)

(Senzor de temperatura si umiditate)

Fabricant **MADGETECH**

(Manufacturer)

Tip **RHTEMP101A**

(Type)

Serie **S30063**

(Serial number)

Client **LABORATORIUM SRL**

(Customer)

**Str.Gheorghe Buzoianu nr.17, Loc.Targu
Bujor, Jud.Galati****Comanda nr.** **522-098/08.04.2025**

(Order No.)

Numar de pagini **2**

(Number of pages)

Data etalonarii **08-04-2025**

(Date of calibration)

Acest certificat de etalonare documenteaza trasabilitatea rezultatelor prezentate la Sistemul International de Unitati(SI). Trasabilitatea masurarilor este realizata si mentinuta prin etalonari periodice, in conformitate cu SR EN ISO/IEC 17025:2018. Incertitudinea standard de masurare a fost determinata in conformitate cu SR Ghid ISO/IEC 98-3. Este recomandat ca utilizatorul sa asigure reetalonarea la intervale de timp rezonabile.

(This calibration certificate documents the traceability of the presented results to the International System of Units(SI). The measurement traceability is achieved and maintained by periodically calibrations, according to SR EN ISO/IEC 17025:2018. The standard uncertainty of measurement has been determined according to SR Guide ISO/IEC 98-3. It is recommended to the user to assure the recalibration at reasonable time intervals.)

Stampila

(Seal)

**Data**

(Date of issue)

08-04-2025

Sef de laborator

(Head of the laboratory)

Tomescu Manole

**Executant etalonare**

(Person performing the calibration)

Stefan Artemiza-Adriana



SC METROCERT UMITEMP SRL

Str. Munteniei, Nr. 53, Otopeni, Ilfov, 075100

Tel: 021 255 07 27, mobil: 0723 662 552, fax: 0371 605 973

E-mail: office@metrocert.ro, Web: www.metrocert.ro

CUI: RO 19163769

Reg.Com.: J40 / 17665 / 2006

Cont: RO64RNCB0078065501010001

Banca Comerciala Romana

Nota: Acest certificat de etalonare nu poate fi reprodus decat in totalitate. Certificatul de etalonare fara semnaturi si stampila nu este valabil.
Etalonare efectuata sub certificare ISO 17025:2018. La etalonare au fost utilizate proceduri validate si etaloane cu trasabilitate la SI

(Note: This calibration certificate may not be reproduced other than in full. Calibration certificate without signature and seal is not valid.
Calibration under ISO 17025:2018. The calibration methods used have been validated and the measurements standards have traceability to SI)

CERTIFICAT DE ETALONARE nr. 01.232.08.04.25

(Calibration Certificate)

Descriere obiect

(Object description)

Senzor de temperatura si umiditate
- interval nominal: 0 .. 55 °C / 25 .. 75 %RH
- diviziune/rez.: 0.1 °C / 0.1 %RH
- toleranta: ± 1 °C / ± 3 %RH

Metoda de etalonare

(Calibration method)

Masurare directa conform procedurii de etalonare: PE-02.12 Ed3,Rev 0
PE-03.12 Ed3,Rev0

Etalonul utilizat/nr.

(Measurement standards)

Termometru digital, Model:735-2, Seria: 01878117/007//01861185/007, CE: 05-00046-01.2025, exp la: 14-01-2027, emis de: SC METRON SERV SRL, **Higrometru electronic**, Model:HMI 41/HMP 46, Seria: C0230024/C0730007, CE: 01.506.14.12.23, exp la: 13-12-2025, emis de: SC METROCERT UMITEMP SRL, **Incinta termostata/higrostat**, Model:TKG WCL 3M, Seria: 1693-2012, CE: 01.112.01.11.24, exp la: 31-10-2026, emis de: SC METROCERT UMITEMP SRL

Locul etalonarii

(Place used for calibration)

Laborator Metrocert Umitemp SRL - Otopeni, jud. Ilfov, str. Munteniei 53

Conditii de masurare

(Measurement conditions)

-

Conditii de referinta

(Order No.)

Temperatura mediului ambiant: (23 ± 2) °C
Umiditatea relativa a aerului: 75 %
Presiune atmosferica: (960 ± 100) hPa

Conditii de mediu

(Environmental conditions)

Temperatura mediului ambiant: 22.6°C;
Umiditatea relativa: 43 %;
Presiune atmosferica: 1020.1 hPa

Reglarea obiectului

(Instrument adjustment)

-

Rezultatele etalonarii

(Calibration results)

Nota: Rezultatele etalonarii se refera numai la obiectul etalonat.

(Note : The calibration results refer only to the object to be calibrated)

Temperatura

Valoarea de referinta °C	Valoarea medie indicata °C	Corectia °C	Incertitudinea de masurare °C
14.7	14.64	0.1	0.9
19.8	19.71	0.1	0.9
24.8	24.68	0.1	0.9

Umiditate

Valoarea de referinta %RH	Valoarea medie indicata %RH	Corectia %RH	Incertitudinea de masurare %RH
25.3	25.04	0.3	2.7
34.9	34.54	0.4	2.8
54.8	54.23	0.6	2.9

Incertitudinea de masurare

(Calibration results)

- conform tabel

Incertitudinea declarata este incertitudinea extinsa, obtinuta prin multiplicarea incertitudinii standard a masurarii cu factorul de extindere $k=2$ care, pentru o distributie normala, corespunde la un nivel de incredere de aproximativ 95 %.
(The uncertainty stated is the expanded uncertainty, obtained by multiplying the standard uncertainty by the coverage factor $k=2$, which for a normal distribution corresponds to a confidence level of approximately 95%)

Conformitatea cu o specificatie

(Compliance with a specification)

-

Informatii

(Additional information)

- Se recomanda reetalonarea inainte de 07.04.2026

Executant etalonare

(Person performing the calibration)

Stefan Artemiza-Adriana

Incheierea certificatului de etalonare
(End of calibration certificate)

Nota: Acest certificat de etalonare nu poate fi reprodus decat in totalitate. Certificatul de etalonare fara semnaturi si stampila nu este valabil.
Etalonare efectuata sub certificare ISO 17025:2018. La etalonare au fost utilizate proceduri validate si etaloane cu trasabilitate la SI.
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(Note: This calibration certificate may not be reproduced other than in full. Calibration methods used have been validated and the measurements standards have traceability to SI)

CERTIFICAT DE ETALONARE nr. 01.233.08.04.25

(Calibration Certificate)

Obiect

(Object)

Termohigrometru

(Senzor de temperatura si umiditate)

Acest certificat de etalonare documenteaza trasabilitatea rezultatelor prezentate la Sistemul International de Unitati(SI). Trasabilitatea masurarilor este realizata si mentinuta prin etalonari periodice, in conformitate cu SR EN ISO/IEC 17025:2018. Incertitudinea standard de masurare a fost determinata in conformitate cu SR Ghid ISO/IEC 98-3. Este recomandat ca utilizatorul sa asigure reetalonarea la intervale de timp rezonabile.

(This calibration certificate documents the traceability of the presented results to the International System of Units(SI). The measurement traceability is achieved and maintained by periodically calibrations, according to SR EN ISO/IEC 17025:2018. The standard uncertainty of measurement has been determined according to SR Guide ISO/IEC 98-3. It is recommended to the user to assure the recalibration at reasonable time intervals.)

Fabricant

(Manufacturer)

MADGETECH**Tip**

(Type)

RHTEMP101A**Serie**

(Serial number)

P70663**Client**

(Customer)

LABORATORIUM SRL**Str.Gheorghe Buzoianu nr.17,Loc.Targu Bujor,Jud.Galati****Comanda nr.**

(Order No.)

522-098/08.04.2025**Numar de pagini**

(Number of pages)

2**Data etalonarii**

(Date of calibration)

08-04-2025**Stampila**

(Seal)

**Data**

(Date of issue)

08-04-2025**Sef de laborator**

(Head of the laboratory)

Tomescu Manole**Executant etalonare**

(Person performing the calibration)

Stefan Artemiza-Adriana**SC METROCERT UMITEMP SRL****Str. Munteniei, Nr. 53, Otopeni, Ilfov, 075100****Tel: 021 255 07 27, mobil: 0723 662 552, fax: 0371 605 973****E-mail: office@metrocert.ro, Web: www.metrocert.ro****CUI: RO 19163769****Reg.Com.: J40 / 17665 / 2006****Cont: RO64RNCB0078065501010001****Banca Comerciala Romana**

Nota: Acest certificat de etalonare nu poate fi reprodus decat in totalitate. Certificatul de etalonare fara semnaturi si stampila nu este valabil.
Etalonare efectuata sub certificare ISO 17025:2018. La etalonare au fost utilizate proceduri validate si etaloane cu trasabilitate la SI.

(Note: This calibration certificate may not be reproduced other than in full. Calibration certificate without signature and seal is not valid.
Calibration under ISO 17025:2018. The calibration methods used have been validated and the measurements standards have traceability to SI)

CERTIFICAT DE ETALONARE nr. 01.233.08.04.25

(Calibration Certificate)

Descriere obiect

(Object description)

Senzor de temperatura si umiditate
- interval nominal: 0 .. 55 °C / 25 .. 75 %RH
- diviziune/rez.: 0.1 °C / 0.1 %RH
- toleranta: ± 1 °C / ± 3 %RH

Metoda de etalonare

(Calibration method)

Masurare directa conform procedurii de etalonare: PE-02.12 Ed3,Rev 0
PE-03.12 Ed3,Rev0

Etalonul utilizat/nr.

(Measurement standards)

Termometru digital, Model:735-2, Seria: 01878117/007//01861185/007, CE: 05-00046-01.2025, exp la: 14-01-2027, emis de: SC METRON SERV SRL, **Higrometru electronic**, Model:HMI 41/HMP 46, Seria: C0230024/C0730007, CE: 01.506.14.12.23, exp la: 13-12-2025, emis de: SC METROCERT UMITEMP SRL, **Incinta termostata/higrostat**, Model:TKG WCL 3M, Seria: 1693-2012, CE: 01.112.01.11.24, exp la: 31-10-2026, emis de: SC METROCERT UMITEMP SRL

Locul etalonarii

(Place used for calibration)

Laborator Metrocert Umitemp SRL - Otopeni, jud. Ilfov, str. Munteniei 53

Conditii de masurare

(Measurement conditions)

-

Conditii de referinta

(Order No.)

Temperatura mediului ambiant: (23 ± 2) °C
Umiditatea relativa a aerului: 75 %
Presiune atmosferica: (960 ± 100) hPa

Conditii de mediu

(Environmental conditions)

Temperatura mediului ambiant: 22.6°C;
Umiditatea relativa: 43 %;
Presiune atmosferica: 1020.1 hPa

Reglarea obiectului

(Instrument adjustment)

-

Rezultatele etalonarii

(Calibration results)

Nota: Rezultatele etalonarii se refera numai la obiectul etalonat.
(Note : The calibration results refer only to the object to be calibrated)

Temperatura

Valoarea de referinta °C	Valoarea medie indicata °C	Corectia °C	Incertitudinea de masurare °C
14.9	14.83	0.1	0.9
19.7	19.60	0.1	0.9
24.7	24.59	0.1	0.9

Umiditate

Valoarea de referinta %RH	Valoarea medie indicata %RH	Corectia %RH	Incertitudinea de masurare %RH
25.3	25.05	0.3	2.7
34.8	34.42	0.4	2.8
54.7	54.14	0.6	2.9

Incertitudinea de masurare

(Calibration results)

- conform tabel
Incertitudinea declarata este incertitudinea extinsa, obtinuta prin multiplicarea incertitudinii standard a masurarii cu factorul de extindere $k=2$ care, pentru o distributie normala, corespunde la un nivel de incredere de aproximativ 95 %.
(The uncertainty stated is the expanded uncertainty, obtained by multiplying the standard uncertainty by the coverage factor $k=2$, which for a normal distribution corresponds to a confidence level of approximately 95%)

Conformitatea cu o specificatie

(Compliance with a specification)

-

Informatii

(Additional information)

- Se recomanda reetalonarea inainte de 07.04.2026

Executant etalonare
(Person performing the calibration)
Stefan Artemiza-Adriana

Incheierea certificatului de etalonare
(End of calibration certificate)

Nota: Acest certificat de etalonare nu poate fi reprodus decat in totalitate. Certificatul de etalonare fara semnatura si stampila nu este valabil.
Etalonare efectuata sub certificare ISO 17025:2018. La etalonare au fost utilizate proceduri validate si etaloane cu trasabilitate la SI.
(Note: This calibration certificate may not be reproduced other than in full. Calibration certificate without signature and seal is not valid.
(Note: This calibration certificate may not be reproduced other than in full. Calibration methods used have been validated and the measurements standards have traceability to SI)

CERTIFICAT DE ETALONARE nr. 01.234.08.04.25

(Calibration Certificate)

Obiect Termohigrometru

(Object)

(Senzor de temperatura si umiditate)

Fabricant MADGETECH

(Manufacturer)

Tip RHTEMP101A

(Type)

Serie P70672

(Serial number)

Client LABORATORIUM SRL

(Customer)

Str.Gheorghe Buzoianu nr.17, Loc.Targu
Bujor, Jud.Galati

Comanda nr. 522-098/08.04.2025

(Order No.)

Numar de pagini 2

(Number of pages)

Data etalonarii 08-04-2025

(Date of calibration)

Acest certificat de etalonare documenteaza trasabilitatea rezultatelor prezentate la Sistemul International de Unitati(SI). Trasabilitatea masurarilor este realizata si mentinuta prin etalonari periodice, in conformitate cu SR EN ISO/IEC 17025:2018. Incertitudinea standard de masurare a fost determinata in conformitate cu SR Ghid ISO/IEC 98-3. Este recomandat ca utilizatorul sa asigure reetalonarea la intervale de timp rezonabile.

(This calibration certificate documents the traceability of the presented results to the International System of Units(SI). The measurement traceability is achieved and maintained by periodically calibrations, according to SR EN ISO/IEC 17025:2018. The standard uncertainty of measurement has been determined according to SR Guide ISO/IEC 98-3. It is recommended to the user to assure the recalibration at reasonable time intervals.)

Stampila

(Seal)



Data

(Date of issue)

08-04-2025

Sef de laborator

(Head of the laboratory)

Tomescu Manole



Executant etalonare

(Person performing the calibration)

Stefan Artemiza-Adriana



SC METROCERT UMITEMP SRL

Str. Munteniei, Nr. 53, Otopeni, Ilfov, 075100

Tel: 021 255 07 27, mobil: 0723 662 552, fax: 0371 605 973

E-mail: office@metrocert.ro, Web: www.metrocert.ro

CUI: RO 19163769

Reg.Com.: J40 / 17665 / 2006

Cont: RO64RNCB0078065501010001

Banca Comerciala Romana

Nota: Acest certificat de etalonare nu poate fi reprodus decat in totalitate. Certificatul de etalonare fara semnaturi si stampila nu este valabil.

Etalonare efectuata sub certificare ISO 17025:2018. La etalonare au fost utilizate proceduri validate si etaloane cu trasabilitate la SI

(Note: This calibration certificate may not be reproduced other than in full. Calibration certificate without signature and seal is not valid.

Pagina 1 / 2 Calibration under ISO 17025:2018. The calibration methods used have been validated and the measurements standards have traceability to SI)

(Page 1 / 2)

cod :F - 02.14 / Ed.4/Rev.0

CERTIFICAT DE ETALONARE nr. 01.234.08.04.25

(Calibration Certificate)

Descriere obiect

(Object description)

Senzor de temperatura si umiditate
- interval nominal: 0 .. 55 °C / 25 .. 75 %RH
- diviziune/rez.: 0.1 °C / 0.1 %RH
- toleranta: ± 1 °C / ± 3 %RH

Metoda de etalonare

(Calibration method)

Masurare directa conform procedurii de etalonare: PE-02.12 Ed3, Rev 0
PE-03.12 Ed3, Rev0

Etalonul utilizat/nr.

(Measurement standards)

Termometru digital, Model: 735-2, Seria: 01878117/007//01861185/007, CE: 05-00046-01.2025, exp la: 14-01-2027, emis de: SC METRON SERV SRL, **Higrometru electronic**, Model: HMI 41/HMP 46, Seria: C0230024/C0730007, CE: 01.506.14.12.23, exp la: 13-12-2025, emis de: SC METROCERT UMITEMP SRL, **Incinta termostata/higrostat**, Model: TKG WCL 3M, Seria: 1693-2012, CE: 01.112.01.11.24, exp la: 31-10-2026, emis de: SC METROCERT UMITEMP SRL

Locul etalonarii

(Place used for calibration)

Laborator Metrocert Umitemp SRL - Otopeni, jud. Ilfov, str. Munteniei 53

Conditii de masurare

(Measurement conditions)

-

Conditii de referinta

(Order No.)

Temperatura mediului ambiant: (23 ± 2) °C
Umiditatea relativa a aerului: 75 %
Presiune atmosferica: (960 ± 100) hPa

Conditii de mediu

(Environmental conditions)

Temperatura mediului ambiant: 22.6 °C;
Umiditatea relativa: 43 %;
Presiune atmosferica: 1020.1 hPa

Reglarea obiectului

(Instrument adjustment)

-

Rezultatele etalonarii

(Calibration results)

Nota: Rezultatele etalonarii se refera numai la obiectul etalonat.

(Note: The calibration results refer only to the object to be calibrated)

Temperatura

Valoarea de referinta °C	Valoarea medie indicata °C	Corectia °C	Incertitudinea de masurare °C
14.9	14.83	0.1	0.9
19.8	19.71	0.1	0.9
24.8	24.69	0.1	0.9

Umiditate

Valoarea de referinta %RH	Valoarea medie indicata %RH	Corectia %RH	Incertitudinea de masurare %RH
25.2	24.93	0.3	2.7
34.8	34.45	0.4	2.8
54.9	54.36	0.5	2.9

Incertitudinea de masurare

(Calibration results)

- conform tabel

Incertitudinea declarata este incertitudinea extinsa, obtinuta prin multiplicarea incertitudinii standard a masurarii cu factorul de extindere $k=2$ care, pentru o distributie normala, corespunde la un nivel de incredere de aproximativ 95 %.
(The uncertainty stated is the expanded uncertainty, obtained by multiplying the standard uncertainty by the coverage factor $k=2$, which for a normal distribution corresponds to a confidence level of approximately 95%)

Conformitatea cu o specificatie

(Compliance with a specification)

-

Informatii

(Additional information)

- Se recomanda reetalonarea inainte de 07.04.2026

Executant etalonare

(Person performing the calibration)

Stefan Artemiza-Adriana

Incheierea certificatului de etalonare

(End of calibration certificate)

Nota: Acest certificat de etalonare nu poate fi reprodus decat in totalitate. Certificatul de etalonare fara semnatura si stampila nu este valabil.
Etalonare efectuata sub certificare ISO 17025:2018. La etalonare au fost utilizate proceduri validate si etaloane cu trasabilitate la SI.
(Note: This calibration certificate may not be reproduced other than in full. Calibration certificate without signature and seal is not valid.
(Note: This calibration certificate may not be reproduced other than in full. Calibration methods used have been validated and the measurements standards have traceability to SI))

CERTIFICAT DE ETALONARE nr. 01.235.08.04.25

(Calibration Certificate)

Obiect **Termohigrometru**

(Object)

(Senzor de temperatura si umiditate)

Fabricant **MADGETECH**

(Manufacturer)

Tip **RHTEMP101A**

(Type)

Serie **P70673**

(Serial number)

Client **LABORATORIUM SRL**

(Customer)

**Str.Gheorghe Buzoianu nr.17, Loc.Targu
Bujor, Jud.Galati****Comanda nr.** **522-098/08.04.2025**

(Order No.)

Numar de pagini **2**

(Number of pages)

Data etalonarii **08-04-2025**

(Date of calibration)

Acest certificat de etalonare documenteaza trasabilitatea rezultatelor prezentate la Sistemul International de Unitati(SI). Trasabilitatea masurarilor este realizata si mentinuta prin etalonari periodice, in conformitate cu SR EN ISO/IEC 17025:2018. Incertitudinea standard de masurare a fost determinata in conformitate cu SR Ghid ISO/IEC 98-3. Este recomandat ca utilizatorul sa asigure reetalonarea la intervale de timp rezonabile.

(This calibration certificate documents the traceability of the presented results to the International System of Units(SI). The measurement traceability is achieved and maintained by periodically calibrations, according to SR EN ISO/IEC 17025:2018. The standard uncertainty of measurement has been determined according to SR Guide ISO/IEC 98-3. It is recommended to the user to assure the recalibration at reasonable time intervals.)

Stampila

(Seal)

**Data**

(Date of issue)

08-04-2025

Sef de laborator

(Head of the laboratory)

Tomescu Manole

**Executant etalonare**

(Person performing the calibration)

Stefan Artemiza-Adriana



SC METROCERT UMITEMP SRL

Str. Munteniei, Nr. 53, Otopeni, Ilfov, 075100

Tel: 021 255 07 27, mobil: 0723 662 552, fax: 0371 605 973

E-mail: office@metrocert.ro, Web: www.metrocert.ro

CUI: RO 19163769

Reg.Com.: J40 / 17665 / 2006

Cont: RO64RNCB0078065501010001

Banca Comerciala Romana

Nota: Acest certificat de etalonare nu poate fi reprodus decat in totalitate. Certificatul de etalonare fara semnaturi si stampila nu este valabil.
Etalonare efectuata sub certificare ISO 17025:2018. La etalonare au fost utilizate proceduri validate si etaloane cu trasabilitate la SI

(Note: This calibration certificate may not be reproduced other than in full. Calibration certificate without signature and seal is not valid.
Calibration under ISO 17025:2018. The calibration methods used have been validated and the measurements standards have traceability to SI)

CERTIFICAT DE ETALONARE nr. 01.235.08.04.25

(Calibration Certificate)

Descriere obiect

(Object description)

Senzor de temperatura si umiditate
- interval nominal: 0 .. 55 °C / 25 .. 75 %RH
- diviziune/rez.: 0.1 °C / 0.1 %RH
- toleranta: ± 1 °C / ± 3 %RH

Metoda de etalonare

(Calibration method)

Masurare directa conform procedurii de etalonare: PE-02.12 Ed3, Rev 0
PE-03.12 Ed3, Rev0

Etalonul utilizat/nr.

(Measurement standards)

Termometru digital, Model: 735-2, Seria: 01878117/007/01861185/007, CE: 05-00046-01.2025, exp la: 14-01-2027, emis de: SC METRON SERV SRL, **Higrometru electronic**, Model: HMI 41/HMP 46, Seria: C0230024/C0730007, CE: 01.506.14.12.23, exp la: 13-12-2025, emis de: SC METROCERT UMITEMP SRL, **Incinta termostata/higrostat**, Model: TKG WCL 3M, Seria: 1693-2012, CE: 01.112.01.11.24, exp la: 31-10-2026, emis de: SC METROCERT UMITEMP SRL

Locul etalonarii

(Place used for calibration)

Laborator Metrocert Umitemp SRL - Otopeni, Jud. Ilfov, str. Munteniei 53

Conditii de masurare

(Measurement conditions)

-

Conditii de referinta

(Order No.)

Temperatura mediului ambiant: (23 ± 2) °C
Umiditatea relativa a aerului: 75 %
Presiune atmosferica: (960 ± 100) hPa

Conditii de mediu

(Environmental conditions)

Temperatura mediului ambiant: 22.6 °C;
Umiditatea relativa: 43 %;
Presiune atmosferica: 1020.1 hPa

Reglarea obiectului

(Instrument adjustment)

-

Rezultatele etalonarii

(Calibration results)

Nota: Rezultatele etalonarii se refera numai la obiectul etalonat.

(Note : The calibration results refer only to the object to be calibrated)

Temperatura

Valoarea de referinta °C	Valoarea medie indicata °C	Corectia °C	Incertitudinea de masurare °C
15.2	15.27	-0.1	0.9
20.1	20.19	-0.1	0.9
25.3	25.41	-0.1	0.9

Umiditate

Valoarea de referinta %RH	Valoarea medie indicata %RH	Corectia %RH	Incertitudinea de masurare %RH
25.2	25.45	-0.3	2.7
35.1	35.44	-0.3	2.8
55.1	55.64	-0.5	2.9

Incertitudinea de masurare

(Calibration results)

- conform tabel

Incertitudinea declarata este incertitudinea extinsa, obtinuta prin multiplicarea incertitudinii standard a masurarii cu factorul de extindere $k=2$ care, pentru o distributie normala, corespunde la un nivel de incredere de aproximativ 95 %.
(The uncertainty stated is the expanded uncertainty, obtained by multiplying the standard uncertainty by the coverage factor $k=2$, which for a normal distribution corresponds to a confidence level of approximately 95%)

Conformitatea cu o specificatie

(Compliance with a specification)

-

Informatii

(Additional information)

- Se recomanda reetalonarea inainte de 07.04.2026

Executant etalonare

(Person performing the calibration)

Stefan Artemiza-Adriana

Incheierea certificatului de etalonare
(End of calibration certificate)

Nota: Acest certificat de etalonare nu poate fi reprodus decat in totalitate. Certificatul de etalonare fara semnaturi si stampila nu este valabil.
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(Note: This calibration certificate may not be reproduced other than in full. Calibration certificate without signature and seal is not valid.)

CERTIFICAT DE ETALONARE nr. 01.236.08.04.25

(Calibration Certificate)

Obiect
(Object) **Termohigrometru**

(Senzor de temperatura si umiditate)

Fabricant
(Manufacturer) **MADGETECH****Tip**
(Type) **RHTEMP101A****Serie**
(Serial number) **S29997****Client**
(Customer) **LABORATORIUM SRL**
Str.Gheorghe Buzoianu nr.17, Loc.Targu Bujor, Jud.Galati**Comanda nr.**
(Order No.) **522-098/08.04.2025****Numar de pagini**
(Number of pages) **2****Data etalonarii**
(Date of calibration) **08-04-2025**

Acest certificat de etalonare documenteaza trasabilitatea rezultatelor prezentate la Sistemul International de Unitati(SI). Trasabilitatea masurarilor este realizata si mentinuta prin etalonari periodice, in conformitate cu SR EN ISO/IEC 17025:2018. Incertitudinea standard de masurare a fost determinata in conformitate cu SR Ghid ISO/IEC 98-3. Este recomandat ca utilizatorul sa asigure reetalonarea la intervale de timp rezonabile.

(This calibration certificate documents the traceability of the presented results to the International System of Units(SI). The measurement traceability is achieved and maintained by periodically calibrations, according to SR EN ISO/IEC 17025:2018. The standard uncertainty of measurement has been determined according to SR Guide ISO/IEC 98-3. It is recommended to the user to assure the recalibration at reasonable time intervals.)

Stampila
(Seal)**Data**
(Date of issue)
08-04-2025**Sef de laborator**
(Head of the laboratory)
Tomescu Manole**Executant etalonare**
(Person performing the calibration)
Stefan Artemiza-Adriana

SC METROCERT UMITEMP SRL
Str. Munteniei, Nr. 53, Otopeni, Ilfov, 075100
Tel: 021 255 07 27, mobil: 0723 662 552, fax: 0371 605 973
E-mail: office@metrocert.ro, Web: www.metrocert.ro
CUI: RO 19163769
Reg.Com.: J40 / 17665 / 2006
Cont: RO64RNCB0078065501010001
Banca Comerciala Romana

Nota: Acest certificat de etalonare nu poate fi reprodus decat in totalitate. Certificatul de etalonare fara semnaturi si stampila nu este valabil.
Etalonare efectuata sub certificare ISO 17025:2018. La etalonare au fost utilizate proceduri validate si etaloane cu trasabilitate la SI
(Note: This calibration certificate may not be reproduced other than in full. Calibration certificate without signature and seal is not valid.
Calibration under ISO 17025:2018. The calibration methods used have been validated and the measurements standards have traceability to SI)

CERTIFICAT DE ETALONARE nr. 01.236.08.04.25

(Calibration Certificate)

Descriere obiect

(Object description)

Senzor de temperatura si umiditate
- interval nominal: 0 .. 55 °C / 25 .. 75 %RH
- diviziune/rez.: 0.1 °C / 0.1 %RH
- toleranta: ± 1 °C / ± 3 %RH

Metoda de etalonare

(Calibration method)

Masurare directa conform procedurii de etalonare: PE-02.12 Ed3, Rev 0
PE-03.12 Ed3, Rev0

Etalonul utilizat/nr.

(Measurement standards)

Termometru digital, Model: 735-2, Seria: 01878117/007//01861185/007, CE: 05-00046-01.2025, exp la: 14-01-2027, emis de: SC METRON SERV SRL, **Higrometru electronic**, Model: HMI 41/HMP 46, Seria: C0230024/C0730007, CE: 01.506.14.12.23, exp la: 13-12-2025, emis de: SC METROCERT UMITEMP SRL, **Incinta termostata/higrostat**, Model: TKG WCL 3M, Seria: 1693-2012, CE: 01.112.01.11.24, exp la: 31-10-2026, emis de: SC METROCERT UMITEMP SRL

Locul etalonarii

(Place used for calibration)

Laborator Metrocert Umitemp SRL - Otopeni, jud. Ilfov, str. Munteniei 53

Conditii de masurare

(Measurement conditions)

-

Conditii de referinta

(Order No.)

Temperatura mediului ambiant: (23 ± 2) °C
Umiditatea relativa a aerului: 75 %
Presiune atmosferica: (960 ± 100) hPa

Conditii de mediu

(Environmental conditions)

Temperatura mediului ambiant: 22.6 °C;
Umiditatea relativa: 43 %;
Presiune atmosferica: 1020.1 hPa

Reglarea obiectului

(Instrument adjustment)

-

Rezultatele etalonarii

(Calibration results)

Nota: Rezultatele etalonarii se refera numai la obiectul etalonat.
(Note : The calibration results refer only to the object to be calibrated)

Temperatura

Valoarea de referinta °C	Valoarea medie indicata °C	Corectia °C	Incertitudinea de masurare °C
14.7	14.62	0.1	0.9
19.8	19.71	0.1	0.9
24.8	24.69	0.1	0.9

Umiditate

Valoarea de referinta %RH	Valoarea medie indicata %RH	Corectia %RH	Incertitudinea de masurare %RH
25.2	24.95	0.3	2.7
34.9	34.54	0.4	2.8
54.8	54.26	0.5	2.9

Incertitudinea de masurare

(Calibration results)

- conform tabel
Incertitudinea declarata este incertitudinea extinsa, obtinuta prin multiplicarea incertitudinii standard a masurarii cu factorul de extindere $k=2$ care, pentru o distributie normala, corespunde la un nivel de incredere de aproximativ 95 %.
(The uncertainty stated is the expanded uncertainty, obtained by multiplying the standard uncertainty by the coverage factor $k=2$, which for a normal distribution corresponds to a confidence level of approximately 95%)

Conformitatea cu o specificatie

(Compliance with a specification)

-
- Se recomanda reetalonarea inainte de 07.04.2026

Informatii

(Additional information)

Executant etalonare

(Person performing the calibration)

Stefan Artemiza-Adriana

Incheierea certificatului de etalonare
(End of calibration certificate)

Nota: Acest certificat de etalonare nu poate fi reprodus decat in totalitate. Certificatul de etalonare fara semnaturi si stampila nu este valabil.
Etalonare efectuata sub certificare ISO 17025:2018. La etalonare au fost utilizate proceduri validate si etaloane cu trasabilitate la SI.
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(Note: This calibration certificate may not be reproduced other than in full. Calibration certificate without signature and seal is not valid.)

CERTIFICAT DE ETALONARE nr. 01.237.08.04.25

(Calibration Certificate)

Obiect **Termohigrometru**

(Object)

(Senzor de temperatura si umiditate)

Acest certificat de etalonare documenteaza trasabilitatea rezultatelor prezentate la Sistemul International de Unitati(SI). Trasabilitatea masurarilor este realizata si mentinuta prin etalonari periodice, in conformitate cu SR EN ISO/IEC 17025:2018. Incertitudinea standard de masurare a fost determinata in conformitate cu SR Ghid ISO/IEC 98-3. Este recomandat ca utilizatorul sa asigure reetalonarea la intervale de timp rezonabile.

(This calibration certificate documents the traceability of the presented results to the International System of Units(SI). The measurement traceability is achieved and maintained by periodically calibrations, according to SR EN ISO/IEC 17025:2018. The standard uncertainty of measurement has been determined according to SR Guide ISO/IEC 98-3. It is recommended to the user to assure the recalibration at reasonable time intervals.)

Fabricant **MADGETECH**

(Manufacturer)

Tip **RHTEMP101A**

(Type)

Serie **P70670**

(Serial number)

Client **LABORATORIUM SRL**

(Customer)

Str.Gheorghe Buzoianu nr.17,Loc.Targu Bujor,Jud.Galati**Comanda nr.** **522-098/08.04.2025**

(Order No.)

Numar de pagini **2**

(Number of pages)

Data etalonarii **08-04-2025**

(Date of calibration)

Stampila

(Seal)

**Data**

(Date of issue)

08-04-2025

Sef de laborator

(Head of the laboratory)

Tomescu Manole

Executant etalonare

(Person performing the calibration)

Stefan Artemiza-Adriana



SC METROCERT UMITEMP SRL
Str. Munteniei, Nr. 53, Otopeni, Ilfov, 075100
Tel: 021 255 07 27, mobil: 0723 662 552, fax: 0371 605 973
E-mail: office@metrocert.ro, Web: www.metrocert.ro

CUI: RO 19163769
Reg.Com.: J40 / 17665 / 2006
Cont: RO64RNCB0078065501010001
Banca Comerciala Romana

Nota: Acest certificat de etalonare nu poate fi reprodus decat in totalitate. Certificatul de etalonare fara semnaturi si stampila nu este valabil.
Etalonare efectuata sub certificare ISO 17025:2018. La etalonare au fost utilizate proceduri validate si etaloane cu trasabilitate la SI.
(Note: This calibration certificate may not be reproduced other than in full. Calibration certificate without signature and seal is not valid.
The calibration methods used have been validated and the measurements standards have traceability to SI)

CERTIFICAT DE ETALONARE nr. 01.237.08.04.25

(Calibration Certificate)

Descriere obiect

(Object description)

Senzor de temperatura si umiditate
- interval nominal: 0 .. 55 °C / 25 .. 75 %RH
- diviziune/rez.: 0.1 °C / 0.1 %RH
- toleranta: ± 1 °C / ± 3 %RH

Metoda de etalonare

(Calibration method)

Masurare directa conform procedurii de etalonare: PE-02.12 Ed3,Rev 0
PE-03.12 Ed3,Rev0

Etalonul utilizat/nr.

(Measurement standards)

Termometru digital, Model:735-2, Seria: 01878117/007//01861185/007, CE: 05-00046-01.2025, exp la: 14-01-2027, emis de: SC METRON SERV SRL, **Higrometru electronic**, Model:HMI 41/HMP 46, Seria: C0230024/C0730007, CE: 01.506.14.12.23, exp la: 13-12-2025, emis de: SC METROCERT UMITEMP SRL, **Incinta termostata/higrostat**, Model:TKG WCL 3M, Seria: 1693-2012, CE: 01.112.01.11.24, exp la: 31-10-2026, emis de: SC METROCERT UMITEMP SRL

Locul etalonarii

(Place used for calibration)

Laborator Metrocert Umitemp SRL - Otopeni, jud. Ilfov, str. Munteniei 53

Conditii de masurare

(Measurement conditions)

-

Conditii de referinta

(Order No.)

Temperatura mediului ambiant: (23 ± 2) °C
Umiditatea relativa a aerului: 75 %
Presiune atmosferica: (960 ± 100) hPa

Conditii de mediu

(Environmental conditions)

Temperatura mediului ambiant: 22.6°C;
Umiditatea relativa: 43 %;
Presiune atmosferica: 1020.1 hPa

Reglarea obiectului

(Instrument adjustment)

-

Rezultatele etalonarii

(Calibration results)

Nota: Rezultatele etalonarii se refera numai la obiectul etalonat.

(Note : The calibration results refer only to the object to be calibrated)

Temperatura

Valoarea de referinta °C	Valoarea medie indicata °C	Corectia °C	Incertitudinea de masurare °C
14.7	14.63	0.1	0.9
19.8	19.71	0.1	0.9
24.8	24.69	0.1	0.9

Umiditate

Valoarea de referinta %RH	Valoarea medie indicata %RH	Corectia %RH	Incertitudinea de masurare %RH
25.2	24.94	0.3	2.7
34.9	34.56	0.3	2.8
54.9	54.35	0.6	2.9

Incertitudinea de masurare

(Calibration results)

- conform tabel

Incertitudinea declarata este incertitudinea extinsa, obtinuta prin multiplicarea incertitudinii standard a masurarii cu factorul de extindere $k=2$ care, pentru o distributie normala, corespunde la un nivel de incredere de aproximativ 95 %.
(The uncertainty stated is the expanded uncertainty, obtained by multiplying the standard uncertainty by the coverage factor $k=2$, which for a normal distribution corresponds to a confidence level of approximately 95%)

Conformitatea cu o specificatie

(Compliance with a specification)

-

Informatii

(Additional information)

- Se recomanda reetalonarea inainte de 07.04.2026

Executant etalonare

(Person performing the calibration)

Stefan Artemiza-Adriana

Incheierea certificatului de etalonare
(End of calibration certificate)

Nota: Acest certificat de etalonare nu poate fi reprodus decat in totalitate. Certificatul de etalonare fara semnaturi si stampila nu este valabil.
Etalonare efectuata sub certificare ISO 17025:2018. La etalonare au fost utilizate proceduri validate si etaloane cu trasabilitate la SI.
(Note: This calibration certificate may not be reproduced other than in full. Calibration certificate without signature and seal is not valid.
(Note: This calibration certificate may not be reproduced other than in full. Calibration methods used have been validated and the measurements standards have traceability to SI)

CERTIFICAT DE ETALONARE nr. 01.238.08.04.25

(Calibration Certificate)

Obiect **Termohigrometru**

(Object)

(Senzor de temperatura si umiditate)

Fabricant **MADGETECH**

(Manufacturer)

Tip **RHTEMP101A**

(Type)

Serie **P70683**

(Serial number)

Client **LABORATORIUM SRL**

(Customer)

**Str.Gheorghe Buzoianu nr.17, Loc.Targu
Bujor, Jud.Galati****Comanda nr.** **522-098/08.04.2025**

(Order No.)

Numar de pagini **2**

(Number of pages)

Data etalonarii **08-04-2025**

(Date of calibration)

Acest certificat de etalonare documenteaza trasabilitatea rezultatelor prezentate la Sistemul International de Unitati(SI). Trasabilitatea masurarilor este realizata si mentinuta prin etalonari periodice, in conformitate cu SR EN ISO/IEC 17025:2018. Incertitudinea standard de masurare a fost determinata in conformitate cu SR Ghid ISO/IEC 98-3. Este recomandat ca utilizatorul sa asigure reetalonarea la intervale de timp rezonabile.

(This calibration certificate documents the traceability of the presented results to the International System of Units(SI). The measurement traceability is achieved and maintained by periodically calibrations, according to SR EN ISO/IEC 17025:2018. The standard uncertainty of measurement has been determined according to SR Guide ISO/IEC 98-3. It is recommended to the user to assure the recalibration at reasonable time intervals.)

Stampila

(Seal)

**Data**

(Date of issue)

08-04-2025

Sef de laborator

(Head of the laboratory)

Tomescu Manole

Executant etalonare

(Person performing the calibration)

Stefan Artemiza-Adriana



SC METROCERT UMITEMP SRL

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E-mail: office@metrocert.ro, Web: www.metrocert.ro

CUI: RO 19163769

Reg.Com.: J40 / 17665 / 2006

Cont: RO64RNCB0078065501010001

Banca Comerciala Romana

Nota: Acest certificat de etalonare nu poate fi reprodus decat in totalitate. Certificatul de etalonare fara semnaturi si stampila nu este valabil.
Etalonare efectuata sub certificare ISO 17025:2018. La etalonare au fost utilizate proceduri validate si etaloane cu trasabilitate la SI

(Note: This calibration certificate may not be reproduced other than in full. Calibration certificate without signature and seal is not valid.
Calibration under ISO 17025:2018. The calibration methods used have been validated and the measurements standards have traceability to SI)

CERTIFICAT DE ETALONARE nr. 01.238.08.04.25

(Calibration Certificate)

Descriere obiect (Object description)	Senzor de temperatura si umiditate - interval nominal: 0 .. 55 °C / 25 .. 75 %RH - diviziune/rez.: 0.1 °C / 0.1 %RH - toleranta: ± 1 °C / ± 3 %RH
Metoda de etalonare (Calibration method)	Masurare directa conform procedurii de etalonare: PE-02.12 Ed3,Rev 0 PE-03.12 Ed3,Rev0
Etalonul utilizat/nr. (Measurement standards)	Termometru digital , Model:735-2, Seria: 01878117/007//01861185/007, CE: 05-00046-01.2025, exp la: 14-01-2027, emis de: SC METRON SERV SRL, Higrometru electronic , Model:HMI 41/HMP 46, Seria: C0230024/C0730007, CE: 01.506.14.12.23, exp la: 13-12-2025, emis de: SC METROCERT UMITEMP SRL, Incinta termostata/higrostat , Model:TKG WCL 3M, Seria: 1693-2012, CE: 01.112.01.11.24, exp la: 31-10-2026, emis de: SC METROCERT UMITEMP SRL

Locul etalonarii (Place used for calibration)	Laborator Metrocert Umitemp SRL - Otopeni, jud. Ilfov, str. Munteniei 53
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Conditii de masurare
(Measurement conditions)

Conditii de referinta
(Order No.)

Temperatura mediului ambiant: (23 ± 2) °C
Umiditatea relativa a aerului: 75 %
Presiune atmosferica: (960 ± 100) hPa

Conditii de mediu
(Environmental conditions)

Temperatura mediului ambiant: 22.6°C;
Umiditatea relativa: 43 %;
Presiune atmosferica: 1020.1 hPa

Reglarea obiectului
(Instrument adjustment)

Rezultatele etalonarii
(Calibration results)

Nota: Rezultatele etalonarii se refera numai la obiectul etalonat.
(Note : The calibration results refer only to the object to be calibrated)

Temperatura

Valoarea de referinta °C	Valoarea medie indicata °C	Corectia °C	Incertitudinea de masurare °C
15.2	15.27	-0.1	0.9
20.3	20.38	-0.1	0.9
25.2	25.31	-0.1	0.9

Umiditate

Valoarea de referinta %RH	Valoarea medie indicata %RH	Corectia %RH	Incertitudinea de masurare %RH
25.2	25.45	-0.3	2.7
35.3	35.62	-0.3	2.8
55.1	55.66	-0.6	2.9

Incertitudinea de masurare

(Calibration results)

- conform tabel

Incertitudinea declarata este incertitudinea extinsa, obtinuta prin multiplicarea incertitudinii standard a masurarii cu factorul de extindere $k=2$ care, pentru o distributie normala, corespunde la un nivel de incredere de aproximativ 95 %.
(The uncertainty stated is the expanded uncertainty, obtained by multiplying the standard uncertainty by the coverage factor $k=2$, which for a normal distribution corresponds to a confidence level of approximately 95%)

Conformitatea cu o specificatie
(Compliance with a specification)

Informatii
(Additional information)

- Se recomanda reetalonarea inainte de 07.04.2026

Executant etalonare
(Person performing the calibration)
Stefan Artemiza-Adriana

Incheierea certificatului de etalonare
(End of calibration certificate)

Nota: Acest certificat de etalonare nu poate fi reprodus decat in totalitate. Certificatul de etalonare fara semnaturi si stampila nu este valabil.
Etalonare efectuata sub certificare ISO 17025:2018. La etalonare au fost utilizate proceduri validate si etaloane cu trasabilitate la SI.
(Note: This calibration certificate may not be reproduced other than in full. Calibration certificate without signature and seal is not valid.
(Note: This calibration certificate may not be reproduced other than in full. Calibration methods used have been validated and the measurements standards have traceability to SI))

CERTIFICAT DE ETALONARE nr. 01.239.08.04.25

(Calibration Certificate)

Obiect Termohigrometru

(Object)

(Senzor de temperatura si umiditate)

Fabricant MADGETECH

(Manufacturer)

Tip RHTEMP101A

(Type)

Serie S30024

(Serial number)

Client LABORATORIUM SRL

(Customer)

Str.Gheorghe Buzoianu nr.17, Loc.Targu
Bujor, Jud.Galati

Comanda nr. 522-098/08.04.2025

(Order No.)

Numar de pagini 2

(Number of pages)

Data etalonarii 08-04-2025

(Date of calibration)

Acest certificat de etalonare documenteaza trasabilitatea rezultatelor prezentate la Sistemul International de Unitati(SI). Trasabilitatea masurarilor este realizata si mentinuta prin etalonari periodice, in conformitate cu SR EN ISO/IEC 17025:2018. Incertitudinea standard de masurare a fost determinata in conformitate cu SR Ghid ISO/IEC 98-3. Este recomandat ca utilizatorul sa asigure reetalonarea la intervale de timp rezonabile.

(This calibration certificate documents the traceability of the presented results to the International System of Units(SI). The measurement traceability is achieved and maintained by periodically calibrations, according to SR EN ISO/IEC 17025:2018. The standard uncertainty of measurement has been determined according to SR Guide ISO/IEC 98-3. It is recommended to the user to assure the recalibration at reasonable time intervals.)

Stampila

(Seal)



Data

(Date of issue)

08-04-2025

Sef de laborator

(Head of the laboratory)

Tomescu Manole



Executant etalonare

(Person performing the calibration)

Stefan Artemiza-Adriana



SC METROCERT UMITEMP SRL

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Tel: 021 255 07 27, mobil: 0723 662 552, fax: 0371 605 973

E-mail: office@metrocert.ro, Web: www.metrocert.ro

CUI: RO 19163769

Reg.Com.: J40 / 17665 / 2006

Cont: RO64RNCB0078065501010001

Banca Comerciala Romana

Nota: Acest certificat de etalonare nu poate fi reprodus decat in totalitate. Certificatul de etalonare fara semnaturi si stampila nu este valabil. Etalonare efectuata sub certificare ISO 17025:2018. La etalonare au fost utilizate proceduri validate si etaloane cu trasabilitate la SI

(Note: This calibration certificate may not be reproduced other than in full. Calibration certificate without signature and seal is not valid. Calibration under ISO 17025:2018. The calibration methods used have been validated and the measurements standards have traceability to SI)

CERTIFICAT DE ETALONARE nr. 01.239.08.04.25

(Calibration Certificate)

Descriere obiect

(Object description)

Senzor de temperatura si umiditate
- interval nominal: 0 .. 55 °C / 25 .. 75 %RH
- diviziune/rez.: 0.1 °C / 0.1 %RH
- toleranta: ± 1 °C / ± 3 %RH

Metoda de etalonare

(Calibration method)

Masurare directa conform procedurii de etalonare: PE-02.12 Ed3,Rev 0
PE-03.12 Ed3,Rev0

Etalonul utilizat/nr.

(Measurement standards)

Termometru digital, Model: 735-2, Seria: 01878117/007//01861185/007, CE: 05-00046-01.2025, exp la: 14-01-2027, emis de: SC METRON SERV SRL, **Higrometru electronic**, Model: HMI 41/HMP 46, Seria: C0230024/C0730007, CE: 01.506.14.12.23, exp la: 13-12-2025, emis de: SC METROCERT UMITEMP SRL, **Incinta termostata/higrostat**, Model: TKG WCL 3M, Seria: 1693-2012, CE: 01.112.01.11.24, exp la: 31-10-2026, emis de: SC METROCERT UMITEMP SRL

Locul etalonarii

(Place used for calibration)

Laborator Metrocert Umitemp SRL - Otopeni, jud. Ilfov, str. Munteniei 53

Conditii de masurare

(Measurement conditions)

-

Conditii de referinta

(Order No.)

Temperatura mediului ambiant: (23 ± 2) °C
Umiditatea relativa a aerului: 75 %
Presiune atmosferica: (960 ± 100) hPa

Conditii de mediu

(Environmental conditions)

Temperatura mediului ambiant: 22.6 °C;
Umiditatea relativa: 43 %;
Presiune atmosferica: 1020.1 hPa

Reglarea obiectului

(Instrument adjustment)

-

Rezultatele etalonarii

(Calibration results)

Nota: Rezultatele etalonarii se refera numai la obiectul etalonat.

(Note : The calibration results refer only to the object to be calibrated)

Temperatura

Valoarea de referinta °C	Valoarea medie indicata °C	Corectia °C	Incertitudinea de masurare °C
15.2	15.27	-0.1	0.9
20.2	20.29	-0.1	0.9
25.2	25.31	-0.1	0.9

Umiditate

Valoarea de referinta %RH	Valoarea medie indicata %RH	Corectia %RH	Incertitudinea de masurare %RH
25.2	25.45	-0.3	2.7
35.1	35.46	-0.4	2.8
55.3	55.85	-0.6	2.9

Incertitudinea de masurare

(Calibration results)

- conform tabel

Incertitudinea declarata este incertitudinea extinsa, obtinuta prin multiplicarea incertitudinii standard a masurarii cu factorul de extindere $k=2$ care, pentru o distributie normala, corespunde la un nivel de incredere de aproximativ 95 %.
(The uncertainty stated is the expanded uncertainty, obtained by multiplying the standard uncertainty by the coverage factor $k=2$, which for a normal distribution corresponds to a confidence level of approximately 95%)

Conformitatea cu o specificatie

(Compliance with a specification)

- Se recomanda reetalonarea inainte de 07.04.2026

Informatii

(Additional information)

Executant etalonare

(Person performing the calibration)

Stefan Artemiza-Adriana

Incheierea certificatului de etalonare

(End of calibration certificate)

Nota: Acest certificat de etalonare nu poate fi reprodus decat in totalitate. Certificatul de etalonare fara semnaturi si stampila nu este valabil.
Etalonare efectuata sub certificare ISO 17025:2018. La etalonare au fost utilizate proceduri validate si etaloane cu trasabilitate la SI.
(Note: This calibration certificate may not be reproduced other than in full. Calibration certificate without signature and seal is not valid.
(Note: This calibration certificate may not be reproduced other than in full. Calibration methods used have been validated and the measurements standards have traceability to SI))

CERTIFICAT DE ETALONARE nr. 01.240.08.04.25

(Calibration Certificate)

Obiect

(Object)

Termohigrometru

(Senzor de temperatura si umiditate)

Fabricant

(Manufacturer)

MADGETECH**Tip**

(Type)

RHTEMP101A**Serie**

(Serial number)

P70680**Client**

(Customer)

LABORATORIUM SRL**Str.Gheorghe Buzoianu nr.17, Loc.Targu
Bujor, Jud.Galati****Comanda nr.**

(Order No.)

522-098/08.04.2025**Numar de pagini**

(Number of pages)

2**Data etalonarii**

(Date of calibration)

08-04-2025

Acest certificat de etalonare documenteaza trasabilitatea rezultatelor prezentate la Sistemul International de Unitati(SI). Trasabilitatea masurarilor este realizata si mentinuta prin etalonari periodice, in conformitate cu SR EN ISO/IEC 17025:2018. Incertitudinea standard de masurare a fost determinata in conformitate cu SR Ghid ISO/IEC 98-3. Este recomandat ca utilizatorul sa asigure reetalonarea la intervale de timp rezonabile.

(This calibration certificate documents the traceability of the presented results to the International System of Units(SI). The measurement traceability is achieved and maintained by periodically calibrations, according to SR EN ISO/IEC 17025:2018. The standard uncertainty of measurement has been determined according to SR Guide ISO/IEC 98-3. It is recommended to the user to assure the recalibration at reasonable time intervals.)

Stampila

(Seal)

**Data**

(Date of issue)

08-04-2025**Sef de laborator**

(Head of the laboratory)

Tomescu Manole**Executant etalonare**

(Person performing the calibration)

Stefan Artemiza-Adriana

SC METROCERT UMITEMP SRL
Str. Munteniei, Nr. 53, Otopeni, Ilfov, 075100
Tel: 021 255 07 27, mobil: 0723 662 552, fax: 0371 605 973
E-mail: office@metrocert.ro, Web: www.metrocert.ro

CUI: RO 19163769
Reg.Com.: J40 / 17665 / 2006
Cont: RO64RNCB0078065501010001
Banca Comerciala Romana

Nota: Acest certificat de etalonare nu poate fi reprodus decat in totalitate. Certificatul de etalonare fara semnaturi si stampila nu este valabil.
Etalonare efectuata sub certificare ISO 17025:2018. La etalonare au fost utilizate proceduri validate si etaloane cu trasabilitate la SI

(Note: This calibration certificate may not be reproduced other than in full. Calibration certificate without signature and seal is not valid.
Calibration under ISO 17025:2018. The calibration methods used have been validated and the measurements standards have traceability to SI)

CERTIFICAT DE ETALONARE nr. 01.240.08.04.25

(Calibration Certificate)

Descriere obiect

(Object description)

Senzor de temperatura si umiditate
- interval nominal: 0 .. 55 °C / 25 .. 75 %RH
- diviziune/rez.: 0.1 °C / 0.1 %RH
- toleranta: ± 1 °C / ± 3 %RH

Metoda de etalonare

(Calibration method)

Masurare directa conform procedurii de etalonare: PE-02.12 Ed3,Rev 0
PE-03.12 Ed3,Rev0

Etalonul utilizat/nr.

(Measurement standards)

Termometru digital, Model:735-2, Seria: 01878117/007//01861185/007, CE: 05-00046-01.2025, exp la: 14-01-2027, emis de: SC METRON SERV SRL, **Higrometru electronic**, Model:HMI 41/HMP 46, Seria: C0230024/C0730007, CE: 01.506.14.12.23, exp la: 13-12-2025, emis de: SC METROCERT UMITEMP SRL, **Incinta termostata/higrostat**, Model:TKG WCL 3M, Seria: 1693-2012, CE: 01.112.01.11.24, exp la: 31-10-2026, emis de: SC METROCERT UMITEMP SRL

Locul etalonarii

(Place used for calibration)

Laborator Metrocert Umitemp SRL - Otopeni, jud. Ilfov, str. Munteniei 53

Conditii de masurare

(Measurement conditions)

-

Conditii de referinta

(Order No.)

Temperatura mediului ambiant: (23 ± 2) °C
Umiditatea relativa a aerului: 75 %
Presiune atmosferica: (960 ± 100) hPa

Conditii de mediu

(Environmental conditions)

Temperatura mediului ambiant: 22.6°C;
Umiditatea relativa: 43 %;
Presiune atmosferica: 1020.1 hPa

Reglarea obiectului

(Instrument adjustment)

-

Rezultatele etalonarii

(Calibration results)

Nota: Rezultatele etalonarii se refera numai la obiectul etalonat.

(Note : The calibration results refer only to the object to be calibrated)

Temperatura

Valoarea de referinta °C	Valoarea medie indicata °C	Corectia °C	Incertitudinea de masurare °C
15.2	15.27	-0.1	0.9
20.3	20.39	-0.1	0.9
25.3	25.42	-0.1	0.9

Umiditate

Valoarea de referinta %RH	Valoarea medie indicata %RH	Corectia %RH	Incertitudinea de masurare %RH
25.3	25.56	-0.3	2.7
35.3	35.65	-0.4	2.8
55.3	55.87	-0.6	2.9

Incertitudinea de masurare

(Calibration results)

- conform tabel

Incertitudinea declarata este incertitudinea extinsa, obtinuta prin multiplicarea incertitudinii standard a masurarii cu factorul de extindere $k=2$ care, pentru o distributie normala, corespunde la un nivel de incredere de aproximativ 95 %.
(The uncertainty stated is the expanded uncertainty, obtained by multiplying the standard uncertainty by the coverage factor $k=2$, which for a normal distribution corresponds to a confidence level of approximately 95%)

Conformitatea cu o specificatie

(Compliance with a specification)

-

Informatii

(Additional information)

- Se recomanda reetalonarea inainte de 07.04.2026

Executant etalonare

(Person performing the calibration)

Stefan Artemiza-Adriana

Incheierea certificatului de etalonare

(End of calibration certificate)

Nota: Acest certificat de etalonare nu poate fi reprodus decat in totalitate. Certificatul de etalonare fara semnaturi si stampila nu este valabil.
Etalonare efectuata sub certificare ISO 17025:2018. La etalonare au fost utilizate proceduri validate si etaloane cu trasabilitate la SI.
(Note: This calibration certificate may not be reproduced other than in full. Calibration certificate without signature and seal is not valid.
(Note: This calibration certificate may not be reproduced other than in full. Calibration methods used have been validated and the measurements standards have traceability to SI))

CERTIFICAT DE ETALONARE nr. 01.324.28.03.25

(Calibration Certificate)

Obiect (Object)	Termometru (Termometru)	Acest certificat de etalonare documenteaza trasabilitatea rezultatelor prezentate la Sistemul International de Unitati(SI). Trasabilitatea masurarilor este realizata si mentinuta prin etalonari periodice, in conformitate cu SR EN ISO/IEC 17025:2018. Incertitudinea standard de masurare a fost determinata in conformitate cu SR Ghid ISO/IEC 98-3. Este recomandat ca utilizatorul sa asigure reetalonarea la intervale de timp rezonabile. (This calibration certificate documents the traceability of the presented results to the International System of Units(SI). The measurement traceability is achieved and maintained by periodically calibrations, according to SR EN ISO/IEC 17025:2018. The standard uncertainty of measurement has been determined according to SR Guide ISO/IEC 98-3. It is recommended to the user to assure the recalibration at reasonable time intervals.)
Fabricant (Manufacturer)	TESTO SE & Co. KGaa - Germania	
Tip (Type)	TESTO 922	
Serie (Serial number)	84905175	
Client (Customer)	LABORATORIUM SRL Str.Gheorghe Buzoianu nr.17,Loc.Targu Bujor,Jud.Galati	
Comanda nr. (Order No.)	560-087/28.03.2025	
Numar de pagini (Number of pages)	2	
Data etalonarii (Date of calibration)	28-03-2025	

Stampila
(Seal)**Data**
(Date of issue)
28-03-2025**Sef de laborator**
(Head of the laboratory)
Tomescu Manole**Executant etalonare**
(Person performing the calibration)
Stefan Artemiza-Adriana

SC METROCERT UMITEMP SRL CUI: RO 19163769
Str. Munteniei, Nr. 53, Otopeni, Ilfov, 075100 Reg.Com.: J40 / 17665 / 2006
Tel: 021 255 07 27, mobil: 0723 662 552, fax: 0371 605 973 Cont: RO64RNCB0078065501010001
E-mail: office@metrocert.ro, Web: www.metrocert.ro Banca Comerciala Romana

Nota: Acest certificat de etalonare nu poate fi reprodus decat in totalitate. Certificatul de etalonare fara semnaturi si stampila nu este valabil.

Etalonare efectuata sub certificare ISO 17025:2018. La etalonare au fost utilizate proceduri validate si etaloane cu trasabilitate la SI

(Note: This calibration certificate may not be reproduced other than in full. Calibration certificate without signature and seal is not valid.

CERTIFICAT DE ETALONARE nr. 01.324.28.03.25

(Calibration Certificate)

Descriere obiect (Object description)	Termometru - interval nominal: -200 .. 1000 °C - diviziune/rez.: 0.1 °C - toleranta: ±1 °C		
Metoda de etalonare (Calibration method)	Masurare directa conform procedurii de etalonare: PE-02.12 Ed3,Rev 0		
Etalonul utilizat/nr. (Measurement standards)	Termometru digital , Model:735-2, Seria: 01878117/007//01861185/007, CE: 05-00046-01.2025, exp la: 14-01-2027, emis de: SC METRON SERV SRL, Higrometru electronic , Model:HMI 41/HMP 46, Seria: C0230024/C0730007, CE: 01.506.14.12.23, exp la: 13-12-2025, emis de: SC METROCERT UMITEMP SRL, Incinta termostata/higrostat , Model:TKG WCL 3M, Seria: 1693-2012, CE: 01.112.01.11.24, exp la: 31-10-2026, emis de: SC METROCERT UMITEMP SRL		
Locul etalonarii (Place used for calibration)	Laborator Metrocert Umitemp SRL - Otopeni, jud. Ilfov, str. Munteniei 53		
Conditii de masurare (Measurement conditions)	-		
Conditii de referinta (Order No.)	Temperatura mediului ambiant: (23 ± 2) °C Umiditatea relativa a aerului: 75 % Presiune atmosferica: (960 ± 100) hPa		
Conditii de mediu (Environmental conditions)	Temperatura mediului ambiant: 21.2°C; Umiditatea relativa: 43.4 %; Presiune atmosferica: 1008.4 hPa		
Reglarea obiectului (Instrument adjustment)	-		
Rezultatele etalonarii (Calibration results)	Nota: Rezultatele etalonarii se refera numai la obiectul etalonat. (Note : The calibration results refer only to the object to be calibrated)		
Temperatura			
Valoarea de referinta °C	Valoarea medie indicata °C	Corectia °C	Incertitudinea de masurare °C
-29.8	-29.77	0.0	0.8
0.2	0.21	0.0	0.8
100.3	100.32	-0.02	1.30
150.2	150.23	0.0	1.6
200.2	200.25	-0.1	1.8
Incertitudinea de masurare (Calibration results)	- conform tabel Incertitudinea declarata este incertitudinea extinsa, obtinuta prin multiplicarea incertitudinii standard a masurarii cu factorul de extindere k=2 care, pentru o distributie normala, corespunde la un nivel de incredere de aproximativ 95 %. (The uncertainty stated is the expanded uncertainty, obtained by multiplying the standard uncertainty by the coverage factor k=2, which for a normal distribution corresponds to a confidence level of approximately 95%)		
Conformitatea cu o specificatie (Compliance with a specification)	-		
Informatii (Additional information)	- Se recomanda reetalonarea inainte de 27.03.2026		

Executant etalonare
(Person performing the calibration)
Stefan Artemiza-Adriana

Incheierea certificatului de etalonare
(End of calibration certificate)

Nota: Acest certificat de etalonare nu poate fi reprodus decat in totalitate. Certificatul de etalonare fara semnaturi si stampila nu este valabil.
Etalonare efectuata sub certificare ISO 17025:2018. La etalonare au fost utilizate proceduri validate si etaloane cu trasabilitate la SI
(Note: This calibration certificate may not be reproduced other than in full. Calibration certificate without signature and seal is not valid.
(Note: This calibration certificate may not be reproduced other than in full. Calibration certificate without signature and seal is not valid.)