

cu o suprafață totală protejată de mai mult de 20 m<sup>2</sup> trebuie efectuată numai în conformitate cu documentația de proiectare.

4.4 Luarea deciziilor privind punerea în funcțiune a ISAI se face de către o comisie. Structura și activitatea principală a comisiei sunt determinate de legislația în vigoare. De asemenea, în cadrul comisiei, pentru obiectele, indiferent de tipul de proprietate ar trebui să fie incluse:

- reprezentantul organului central al supravegherii de stat a măsurilor contra incendiilor;
- reprezentantul organului serviciilor de salvatori și pompieri - (la stația cărora se prevede transmiterea semnalului de incendiu);
- reprezentantul organizației de întreținerea tehnică (cu condiția să nu fie o organizație care a efectuat lucrări de instalare și punere în funcțiune);
- expertul tehnic, atestat în domeniul dat (care nu este nici investitor, nici instalatorul ISAI), care eliberează avizul privind corespunderea instalației cu cerințele prezentului document normativ, documentele de proiect și cerințele standardelor în vigoare.

Nu este permisă recepționarea și punerea în exploatare ISAI la obiectivele obiectivele de grupa I și II (art. 23<sup>2</sup> Legii №267-XIII privind apărarea împotriva incendiilor) fără avizul pozitiv a expertului tehnic atestat în domeniul dat.

4.5 Organizațiile pentru instalare și punere în funcțiune la efectuarea lucrărilor trebuie să respecte (în cazul în care nu contravin cerințelor normativelor) cerințele documentației de proiect.

4.6 Inspecția tehnică a ISAI la obiectele de grupele I și II (conform art.23<sup>2</sup> din Legea nr. 267-XIII privind siguranța la foc) trebuie efectuată peste 5 ani de la data punerii în funcțiune a instalației și apoi periodic, ținând cont de uzura instalației, cel puțin o dată la 5 ani. Certificarea tehnică este efectuată de un expert tehnic atestat în domeniul, care nu reprezintă interesele beneficiarului și a organizației care deservește ISAI.

4.7 ~~Componentele ISAI trebuie să îndeplinească cerințele prezentului document normativ, precum și diverselor părți ale SM EN 54. Toate componentele trebuie să aibă **certificat** de conformitate eliberat de organisme acreditate în certificare în RM pe baza încheierii pozitive a unui laborator de testare acreditat și recunoscut în Uniunea Europeană sau certificat de conformitate eliberat de autoritatea, de asemenea, acreditată și recunoscută în Uniunea Europeană.~~



# EVPÜ<sup>®</sup>

NOTIFIED BODY No. 1293

## CERTIFICATE OF CONSTANCY OF PERFORMANCE

No. 1293 – CPR – 0542

In compliance with *Regulation (EU) No 305/2011 of the European Parliament and of the Council of 9 March 2011* (the Construction products Regulation or CPR), this certificate applies to the construction product

### Conventional fire alarm control panel MAG8

For specifications see Annex to this certificate

placed on the market under the name or trade mark of

**Teletek Electronics JSC**  
**14A Srebarňa Str., 1407 Sofia, Bulgaria**

and produced in the manufacturing plant

**Teletek Electronics JSC**  
**14A Srebarňa Str., 1407 Sofia, Bulgaria**

This certificate attests that all provisions concerning the assessment and verification of constancy of performance described in Annex ZA of the standards

EN 54-2: 1997  
EN 54-2: 1997/AC: 1999  
EN 54-2: 1997/A1: 2006  
EN 54-4: 1997  
EN 54-4: 1997/AC: 1999  
EN 54-4: 1997/A1: 2002  
EN 54-4: 1997/A2: 2006

under system 1 for the performance set out in this certificate are applied and that the factory production control conducted by the manufacturer is assessed to ensure the

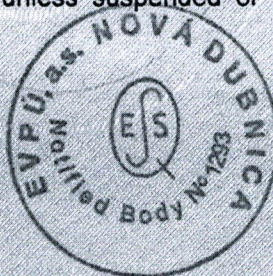
**constancy of performance of the construction product.**

This certificate was first issued on April 11<sup>th</sup>, 2017 and will remain valid as long as neither the harmonised standard, the construction product, the AVCP methods nor the manufacturing conditions in the plant are modified significantly, unless suspended or withdrawn by the notified product certification body.

Nová Dubnica, April 11<sup>th</sup>, 2017

053084

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Page 1 / 2 FCO 425-13 Rev.1



  
Marek Hudák  
Director NB

## Annex to Certificate No. 1293 - CPR – 0542 from April 11<sup>th</sup>, 2017

### Technical Specifications

MAG8 is a conventional fire alarm panel providing 8 fixed zones. Up to 20 (32SensoMAG Series) fire detectors can be connected to every fire zone. Unlimited number of call points can be connected to every of the fire zones.

### Products parameters:

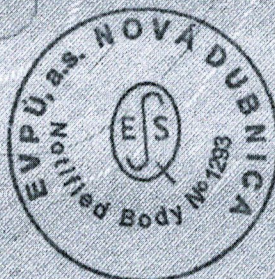
Main Power supply:	230V AC
Maximum current for standby power supply:	4.5A (battery 1 x 12V / 7Ah)
Maximum charging current for the battery:	0.3A
Auxiliary output:	24V DC, 0.3A fuse
Operating temperature:	-5 to 40°C
Storage temperature:	-20 to 60°C
Humidity:	0 to 95%
Weight (without battery)	2,4kg

### List of optional functions with requirements included in the c.i.e

#### EN 54-2:

- Clause: 7.8 Description: Output to the fire alarm device
- Clause: 7.11 Description: Delay to outputs
- Clause: 7.12 Description: Co-incident detection
- Clause: 10 Description: Test condition

Essential characteristics	Harmonised technical specification		Performance
	EN 54-2:1997 EN 54-2:1997 /AC:1999 EN 54-2:1997 /A1:2006	EN 54-4:1997 EN 54-4:1997 /AC:1999 EN 54-4:1997 /A1:2002 EN 54-4:1997 /A2:2006	
Performance under fire conditions	cl. 4, 5, 7	---	Pass
Performance of power supply	---	cl. 4, 5, 6	Pass
Response delay (response time to fire)	cl. 7.1, 7.7, 7.11, 7.12	---	Pass
Operational reliability	cl. 4, 5, 6, 7, 8, 9, 10, 11=N/A, 12, 13, 14	cl. 4, 5, 6, 7, 8	Pass
Durability of operational reliability and response delay: temperature resistance	cl. 15.4	cl. 9.5	Pass
Durability of operational reliability: vibration resistance	cl. 15.6, 15.7, 15.15	cl. 9.7, 9.8, 9.15	Pass
Durability of operational reliability: electrical stability	cl. 15.8, 15.9 to 15.12=N/A, 15.13	cl. 9.9, 9.10 to 9.13=N/A	Pass
Durability of operational reliability: humidity resistance	cl. 15.5, 15.14	cl. 9.6, 9.14	Pass



Nová Dubnica, April 11<sup>th</sup>, 2017

  
 Marek Hudák  
 Director NB



# EVPÜ<sup>®</sup>

NOTIFIED BODY No. 1293

## CERTIFICATE OF CONSTANCY OF PERFORMANCE

No. 1293 – CPR – 0546

In compliance with *Regulation (EU) No 305/2011 of the European Parliament and of the Council of 9 March 2011* (the Construction products Regulation or CPR), this certificate applies to the construction product

**Conventional fire alarm control panel MAG8Plus, MAG4Plus,  
Fire Line MAG8Plus, Fire Line MAG4Plus, AE/C5-8-16**

For specifications see Annex to this certificate

placed on the market under the name or trade mark of

**Teletek Electronics JSC  
14A Srebarna Str., 1407 Sofia, Bulgaria**

and produced in the manufacturing plant

**Teletek Electronics JSC  
14A Srebarna Str., 1407 Sofia, Bulgaria**

This certificate attests that all provisions concerning the assessment and verification of constancy of performance described in Annex ZA of the standards

**EN 54-2: 1997**

**EN 54-2: 1997/AC: 1999**

**EN 54-2: 1997/A1: 2006**

**EN 54-4: 1997**

**EN 54-4: 1997/AC: 1999**

**EN 54-4: 1997/A1: 2002**

**EN 54-4: 1997/A2: 2006**

under system 1 for the performance set out in this certificate are applied and that the factory production control conducted by the manufacturer is assessed to ensure the

**constancy of performance of the construction product.**

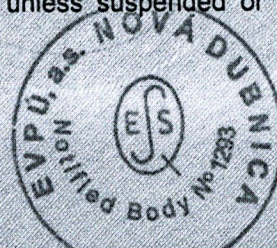
This certificate was first issued on April 13<sup>th</sup>, 2017 and will remain valid as long as neither the harmonised standard, the construction product, the AVCP methods nor the manufacturing conditions in the plant are modified significantly, unless suspended or withdrawn by the notified product certification body.

Nová Dubnica, April 13<sup>th</sup>, 2017

053090

EVPÜ a.s., Trenčianska 19, SK 018 51 Nová Dubnica, Slovak Republic, [www.evpu.sk](http://www.evpu.sk)

Page 1 / 2 FCO 425-13 Rev.1



Marek H u ď á k  
Director NB

## Annex to Certificate No. 1293 - CPR – 0546 from April 13<sup>th</sup>, 2017

### Technical Specifications

The MAG4Plus is a conventional microprocessor fire control panel. The panel provides for monitoring and reporting fire events in up to 16 separate zones, depending on the installed configuration.

### Products parameters:

Main Power supply:

Auxiliary output:

Back-up Power Supply:

Operating temperature:

Humidity:

Storage temperature:

230V AC

24V DC, 0.3A fuse

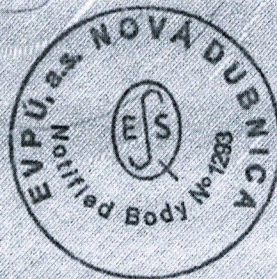
battery 12V/18Ah

-5°C to +40°C

0 to 93% (non condensing)

-20°C to +60°C

Essential characteristics	Harmonised technical specification		Performance
	EN 54-2:1997 EN 54-2:1997 /AC:1999 EN 54-2:1997 /A1:2006	EN 54-4:1997 EN 54-4:1997 /AC:1999 EN 54-4:1997 /A1:2002 EN 54-4:1997 /A2:2006	
Performance under fire conditions	cl. 4, 5, 7	---	Pass
Performance of power supply	---	cl. 4, 5, 6	Pass
Response delay (response time to fire)	cl. 7.1, 7.7, 7.11, 7.12	---	Pass
Operational reliability	cl. 4, 5, 6, 7, 8, 9, 10, 11=N/A, 12, 13, 14	cl. 4, 5, 6, 7, 8	Pass
Durability of operational reliability and response delay: temperature resistance	cl. 15.4	cl. 9.5	Pass
Durability of operational reliability: vibration resistance	cl.15.6,15.7,15.15	cl. 9.7, 9.8, 9.15	Pass
Durability of operational reliability: electrical stability	cl. 15.8, 15.9 to 15.12=N/A, 15.13	cl. 9.9, 9.10 to 9.13=N/A	Pass
Durability of operational reliability: humidity resistance	cl. 15.5, 15.14	cl. 9.6, 9.14	Pass



Nová Dubnica, April 13<sup>th</sup>, 2017

  
 Marek Hudák  
 Director NB



# EVPU<sup>®</sup>

NOTIFIED BODY No. 1293

## CERTIFICATE OF CONSTANCY OF PERFORMANCE

No. 1293 – CPR – 0655

In compliance with Regulation (EU) No 305/2011 of the European Parliament and of the Council of 9 March 2011 (the Construction products Regulation or CPR), this certificate applies to the construction product

**Conventional manual call point  
SensoMAG MCP50, SCP-2R, Jade MCP50,  
Precise MCP50, Herald MCP50, RunwayLeo MCP50**

For specifications see Annex to this certificate

placed on the market under the name or trade mark of

**Teletek Electronics JSC  
14A Srebarna Str., 1407 Sofia, Bulgaria**

and produced in the manufacturing plant

**Teletek Electronics JSC  
14A Srebarna Str., 1407 Sofia, Bulgaria**

This certificate attests that all provisions concerning the assessment and verification of constancy of performance described in Annex ZA of the standards

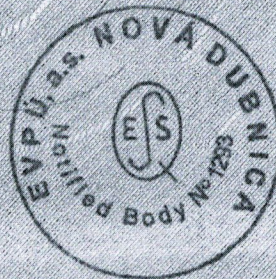
**EN 54-11:2001**

**EN 54-11:2001/A1:2005**

under system 1 for the performance set out in this certificate are applied and that the factory production control conducted by the manufacturer is assessed to ensure the

**constancy of performance of the construction product.**

This certificate was first issued on August 16<sup>th</sup>, 2019 and will remain valid as long as neither the harmonised standard, the construction product, the AVCP methods nor the manufacturing conditions in the plant are modified significantly, unless suspended or withdrawn by the notified product certification body.



Nová Dubnica, August 16<sup>th</sup>, 2019  
053441

  
Marek Hudák  
Director NB

## Annex to Certificate No. 1293 - CPR – 0655 from August 16<sup>th</sup>, 2019

### General Information

SensoMAG MCP50 and derived variants are manual call points, designed to work with conventional fire panels.

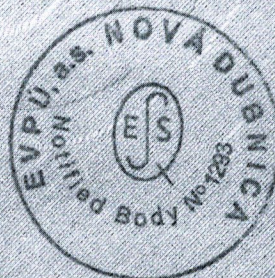
In stand-by mode, the resettable (flexible) call point element is in a middle position. The call point is powered off and the LED is off. When pressed on, the resettable element is moving down and a color strip is shown on at its upper side. The call point is powered on and the LED is on - this is a "Fire alarm" condition. The resetting of the flexible element back in stand-by mode is done with the special key tool.

### Products parameters

Operating voltage	9+30VDC
Nominal operating voltage	24VDC
Current consumption in alarm state	23mA/15V, 38mA/24V, 48mA/30V
Installation wires	0.4+2.0 mm <sup>2</sup>
Operation temperature	-10°C + +60°C
Relative humidity	≤ 93% @ +40°C
Degree of protection	IP40
Dimensions	90x90x56mm
Weight	≤150g
Material (plastic), colour	ABS, red
Type (according to EN 54-11)	A
Type of the frangible element	Resettable (flexible)
Indication "Fire alarm"	red LED

Essential characteristics	Test specification	Harmonised technical specifications	Performance
Nominal activation conditions / Sensitivity and Performance under fire conditions	cl. 4.3.2, 4.4, 4.7.1, 4.7.4=N/A, 5.2, 5.3	EN 54-11:2001 EN 54-11/A1:2005	Pass
Operational reliability	cl. 4.2, 4.3.1, 4.5, 4.6, 4.7.2, 4.7.3, 4.7.5, 4.8=N/A, 5.4, 5.5	EN 54-11:2001 EN 54-11/A1:2005	Pass
Durability of operational reliability: temperature resistance	cl. 5.7, 5.8=N/A, 5.9	EN 54-11:2001 EN 54-11/A1:2005	Pass
Durability of operational reliability: vibration resistance	cl. 5.14 to 5.17	EN 54-11:2001 EN 54-11/A1:2005	Pass
Durability of operational reliability: humidity resistance	cl. 5.10, 5.11=N/A, 5.12, 5.19=N/A	EN 54-11:2001 EN 54-11/A1:2005	Pass
Durability of operational reliability: corrosion resistance	cl. 5.11=N/A, 5.13	EN 54-11:2001 EN 54-11/A1:2005	Pass
Durability of operational reliability: electrical stability	cl. 5.6, 5.18	EN 54-11:2001 EN 54-11/A1:2005	Pass

Nová Dubnica, August 16<sup>th</sup>, 2019



  
 Marek Hudák  
 Director NB



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NOTIFIED BODY No. 1293

## CERTIFICATE OF CONSTANCY OF PERFORMANCE

No. 1293 – CPR – 0637

In compliance with *Regulation (EU) No 305/2011 of the European Parliament and of the Council of 9 March 2011* (the Construction products Regulation or CPR), this certificate applies to the construction product

**Conventional fire alarm optical-smoke detector  
SensoMAG S30, Precise S30, Herald S30, RunwayLeo S30**

For specifications see Annex to this certificate

placed on the market under the name or trade mark of

**Teletek Electronics JSC  
14A Srebarna Str., 1407 Sofia, Bulgaria**

and produced in the manufacturing plant

**Teletek Electronics JSC  
14A Srebarna Str., 1407 Sofia, Bulgaria**

This certificate attests that all provisions concerning the assessment and verification of constancy of performance described in Annex ZA of the standards

**EN 54-7:2000**

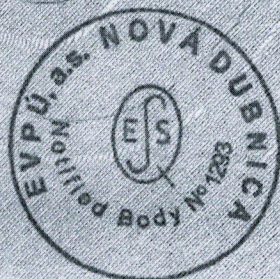
**EN 54-7:2000/A1:2002**

**EN 54-7:2000/A2:2006**

under system 1 for the performance set out in this certificate are applied and that the factory production control conducted by the manufacturer is assessed to ensure the


**constancy of performance of the construction product.**

This certificate was first issued on March 19<sup>th</sup>, 2019 and will remain valid as long as neither the harmonised standard, the construction product, the AVCP methods nor the manufacturing conditions in the plant are modified significantly, unless suspended or withdrawn by the notified product certification body.



Nová Dubnica, March 19<sup>th</sup>, 2019

053393

  
Marek Hudák  
Director NB



## Annex to Certificate No. 1293 - CPR – 0637 from March 19<sup>th</sup>, 2019

### General Information

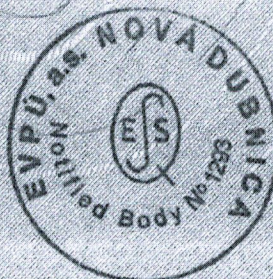
The detector SensoMAG S30 and derived variants are compatible with any conventional Fire Panel with fire alarm threshold between 10mA and 15mA (between 10mA and 30mA with B24RD fire base). The detector can be used with 4 base types:

- B12L/U - Base with relay output (not covered by EN54-7);
- B24 - Standard base;
- B24D - Standard base with Schottky diode;
- B24RD - Standard base with Schottky diode and increased alarm state current.

### Technical specifications

Operating voltage range	9 - 30 V DC (Nom. 12/24VDC)
Average current consumption in quiescent state	< 50µA
Alarm state current	
- with base type B24 and B24D	20 mA / 12+30V
- with base type B24RD	33 mA / 12V; 49mA/24V; 57mA/30V
- with base type B12L/U	18 mA / 9V; 29mA/12V; 32mA/15V
Output in alarm state at terminal R1	20mA (max) / -3.3V
Operation temperature	-10°C + +60°C
Relative humidity	(93±3)% @ +40°C
Degree of protection	IP30
Dimensions	Φ 102mm h 42mm
Weight (incl. base)	160g

Essential characteristics	Test specification	Harmonised technical specifications	Performance
Nominal activation conditions / Sensitivity, response delay (response time) and Performance under fire conditions	cl. 4.8, 5.2, 5.3, 5.4, 5.6, 5.7, 5.18	EN 54-7:2000 EN 54-7:2000/A1:2002 EN 54-7:2000/A2:2006	Pass
Operational reliability	cl. 4.2 to 4.5, 4.6=N/A, 4.7, 4.9 to 4.11	EN 54-7:2000 EN 54-7:2000/A1:2002 EN 54-7:2000/A2:2006	Pass
Tolerance to supply voltage	cl. 5.5	EN 54-7:2000 EN 54-7:2000/A1:2002 EN 54-7:2000/A2:2006	Pass
Durability of operational reliability and response delay: temperature resistance	cl. 5.8, 5.9	EN 54-7:2000 EN 54-7:2000/A1:2002 EN 54-7:2000/A2:2006	Pass
Durability of operational reliability: vibration resistance	cl. 5.13 to 5.16	EN 54-7:2000 EN 54-7:2000/A1:2002 EN 54-7:2000/A2:2006	Pass
Durability of operational reliability: humidity resistance	cl. 5.10, 5.11	EN 54-7:2000 EN 54-7:2000/A1:2002 EN 54-7:2000/A2:2006	Pass
Durability of operational reliability: corrosion resistance	cl. 5.12	EN 54-7:2000 EN 54-7:2000/A1:2002 EN 54-7:2000/A2:2006	Pass
Durability of operational reliability: electrical stability	cl. 5.17	EN 54-7:2000 EN 54-7:2000/A1:2002 EN 54-7:2000/A2:2006	Pass



Nová Dubnica, March 19<sup>th</sup>, 2019

  
 Marek Hudák  
 Director NB



# EVPU<sup>®</sup>

NOTIFIED BODY No. 1293

## CERTIFICATE OF CONSTANCY OF PERFORMANCE

No. 1293 – CPR – 0639

In compliance with *Regulation (EU) No 305/2011 of the European Parliament and of the Council of 9 March 2011* (the Construction products Regulation or CPR), this certificate applies to the construction product

### Conventional fire alarm Rate-of-Rise Heat Detector SensoMAG R20, Precise R20, Herald R20, RunwayLeo R20

For specifications see Annex to this certificate

placed on the market under the name or trade mark of

**Teletek Electronics JSC**  
**14A Srebarna Str., 1407 Sofia, Bulgaria**

and produced in the manufacturing plant

**Teletek Electronics JSC**  
**14A Srebarna Str., 1407 Sofia, Bulgaria**

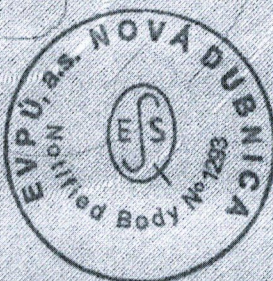
This certificate attests that all provisions concerning the assessment and verification of constancy of performance described in Annex ZA of the standards

**EN 54-5:2000**  
**EN 54-5:2000/A1:2002**

under system 1 for the performance set out in this certificate are applied and that the factory production control conducted by the manufacturer is assessed to ensure the

**constancy of performance of the construction product.**

This certificate was first issued on March 19<sup>th</sup>, 2019 and will remain valid as long as neither the harmonised standard, the construction product, the AVCP methods nor the manufacturing conditions in the plant are modified significantly, unless suspended or withdrawn by the notified product certification body.



Nová Dubnica, March 19<sup>th</sup>, 2019

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Page 1 / 2 FCO 425-13 Rev.1

  
Marek Hudák  
Director NB

## Annex to Certificate No. 1293 - CPR – 0639 from March 19<sup>th</sup>, 2019

### General Information

The detector SensoMAG R20 and derived variants are compatible with any conventional Fire Panel with fire alarm threshold between 10mA and 15mA (between 10mA and 30mA with B24RD fire base).

The detector can be used with 4 base types:

- B12L/U - Base with relay output (not covered by EN54-5);
- B24 - Standard base;
- B24D - Standard base with Schottky diode;
- B24RD - Standard base with Schottky diode and increased alarm state current.

### Technical specifications

Operating voltage range	9 - 30 V DC (Nom. 12/24VDC)
Average current consumption in quiescent state	< 50µA
Alarm state current	
- with base type B24 and B24D	20 mA / 12+30V
- with base type B24RD	33 mA / 12V; 49mA/24V; 57mA/30V
- with base type B12L/U	18 mA / 9V; 29mA/12V; 32mA/15V
Class (in accordance with EN 54-5)	A1/R
Output in alarm state at terminal R1	20mA (max) / -3.3V
Operation temperature	-10°C + +60°C
Relative humidity	(93±3)% @ +40°C
Degree of protection	IP30
Dimensions	Φ 102mm h 42mm
Weight (incl. base)	160g

Essential characteristics	Test specification	Harmonised technical specifications	Performance
Nominal activation conditions / Sensitivity, Response delay (response time) and Performance under fire conditions	cl. 4.2, 4.3, 5.2 to 5.4, 5.5=N/A, 5.6, 5.8, 6.1=N/A, 6.2	EN 54-5:2000 EN 54-5:2000/A1:2002	Pass
Operational reliability	cl. 4.4, 4.5=N/A, 4.6, 4.7, 4.8=N/A, 4.9 to 4.11	EN 54-5:2000 EN 54-5:2000/A1:2002	Pass
Tolerance to supply voltage	cl. 5.7	EN 54-5:2000 EN 54-5:2000/A1:2002	Pass
Durability of operational reliability and response delay: temperature resistance	cl. 5.9, 5.10=N/A	EN 54-5:2000 EN 54-5:2000/A1:2002	Pass
Durability of operational reliability: vibration resistance	cl. 5.14 to 5.17	EN 54-5:2000 EN 54-5:2000/A1:2002	Pass
Durability of operational reliability: humidity resistance	cl. 5.11, 5.12	EN 54-5:2000 EN 54-5:2000/A1:2002	Pass
Durability of operational reliability: corrosion resistance	cl. 5.13	EN 54-5:2000 EN 54-5:2000/A1:2002	Pass
Durability of operational reliability: electrical stability	cl. 5.18	EN 54-5:2000 EN 54-5:2000/A1:2002	Pass



Nová Dubnica, March 19<sup>th</sup>, 2019

*Marek Hudák*  
Director NB

# CERTIFICATE

of constancy of performance

**1922 - CPR - 1230**

In compliance with Regulation (EU) 305/2011 of the European Parliament and of the Council of 9 March 2011 (the Construction Products Regulation or CPR), this certificate applies to the construction product

**Fire detection and fire alarm systems. Fire alarm devices. Sounders.  
Conventional indoor fire alarm sounder - SV2002F and SF105**

(For list of controlled characteristics and models, see Annexes I and II to 1922-CPR-1230 that are an inseparable part of this certificate)

placed on the market under the name or trade mark of

**Safety Technics and Systems**  
**No.31 "3020" Str., 1360 Sofia, Bulgaria**  
and produced in the manufacturing plant of  
**Safety Technics and Systems**  
**No.31 "3020" Str., 1360 Sofia, Bulgaria**

This certificate attests that all provisions concerning the assessment and verification of constancy of performance described in Annex ZA of the standard

**EN 54-3:2001, EN 54-3:2001/A1:2002, EN 54-3:2001/A2:2006**

under system 1 for the performance set out in this certificate are applied and that the factory production control conducted by the manufacturer is assessed to ensure the constancy of performance of the construction product.

This certificate was first issued on 19.07.2019 and will remain valid until 19.07.2020 as long as neither the harmonised standard, the construction product, the AVCP methods nor the manufacturing conditions in the plant are modified significantly, unless suspended or withdrawn by the notified product certification body. The certificate is supported through annual surveillance audit. The validity of the certificate may be confirmed in the CE register at the web address [www.dedal-bg.net](http://www.dedal-bg.net).



Issued:  
Burgas, 19 July 2019

Embossed stamp of "Dedal - A&C" Ltd.

**Dedal**

Attestation &  
Certification

Manager:

arch. Galina Vasileva

## ANNEX I TO CERTIFICATE OF CONSTANCY OF PERFORMANCE 1922 - CPR - 1230/19.07.2019

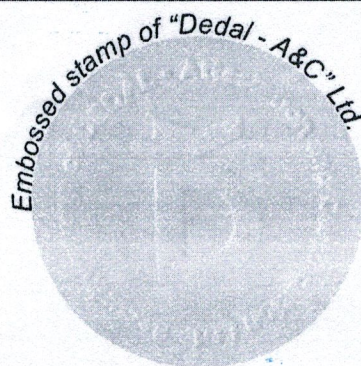
### Model SV2002F - Conventional indoor fire alarm sounder

Performance list, acc. to EN 54-3:2001, EN 54-3:2001/A1:2002, EN 54-3:2001/A2:2006

Essential characteristics	Performance	Clause
<b>Performance parameters under fire conditions</b>		
- Sound level	Pass	4.2
- Frequencies and sound pattern	Pass	4.3
- Reproducibility	Pass	5.2
- Operational performance	Pass	5.3
- Attention drawing signal and message broadcast sequences	N/A	C.3.1
- Synchronization	N/A	C.3.2
- Broadcast message performance	N/A	C.5.1
- Attention drawing signal/silence/message sequence timing	N/A	C.5.2
- Message synchronization testing	N/A	C.5.3
<b>Operational reliability</b>		
- Durability	Pass	4.4
- Construction	Pass	4.5
- Marking and data	Pass	4.6
- Durability	Pass	5.4
- General testing	N/A	C.4
<b>Durability of operational reliability, temperature resistance</b>		
- Dry heat (operational)	Pass	5.5
- Dry heat (endurance)	N/A	5.6
- Cold (operational)	Pass	5.7
- Damp heat, cyclic (operational)	Pass	5.8
- Damp heat, steady state (endurance)	Pass	5.9
<b>Durability of operational reliability, humidity resistance</b>		
- Damp heat, cyclic (operational)	Pass	5.8
- Damp heat, steady state (endurance)	Pass	5.9
- Damp heat, cyclic (endurance)	N/A	5.10
<b>Durability of operational reliability, corrosion resistance</b>		
- Sulphur dioxide (SO <sub>2</sub> ) corrosion (endurance)	Pass	5.11
<b>Durability of operational reliability, shock and vibration resistance</b>		
- Shock (operational)	Pass	5.12
- Impact (operational)	Pass	5.13
- Vibration, sinusoidal (operational)	Pass	5.14
- Vibration, sinusoidal (endurance)	Pass	5.15
<b>Durability, electrical stability</b>		
- Electromagnetic compatibility (EMC), immunity (operational)	Pass	5.16
<b>Durability of operational reliability, resistance to ingress</b>		
- Enclosure protection	Pass	5.17

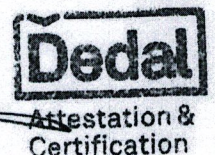


Issued:  
Burgas, 19 July 2019



Manager:

arch. Galina Vasileva



## ANNEX II TO CERTIFICATE OF CONSTANCY OF PERFORMANCE 1922 - CPR - 1230/19.07.2019

### Model SF105 - Conventional indoor fire alarm sounder

Performance list, acc. to EN 54-3:2001, EN 54-3:2001/A1:2002, EN 54-3:2001/A2:2006

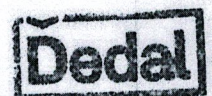
Essential characteristics	Performance	Clause
<b>Performance parameters under fire conditions</b>		
- Sound level	Pass	4.2
- Frequencies and sound pattern	Pass	4.3
- Reproducibility	Pass	5.2
- Operational performance	Pass	5.3
- Attention drawing signal and message broadcast sequences	N/A	C.3.1
- Synchronization	N/A	C.3.2
- Broadcast message performance	N/A	C.5.1
- Attention drawing signal/silence/message sequence timing	N/A	C.5.2
- Message synchronization testing	N/A	C.5.3
<b>Operational reliability</b>		
- Durability	Pass	4.4
- Construction	Pass	4.5
- Marking and data	Pass	4.6
- Durability	Pass	5.4
- General testing	N/A	C.4
<b>Durability of operational reliability, temperature resistance</b>		
- Dry heat (operational)	Pass	5.5
- Dry heat (endurance)	N/A	5.6
- Cold (operational)	Pass	5.7
- Damp heat, cyclic (operational)	Pass	5.8
- Damp heat, steady state (endurance)	Pass	5.9
<b>Durability of operational reliability, humidity resistance</b>		
- Damp heat, cyclic (operational)	Pass	5.8
- Damp heat, steady state (endurance)	Pass	5.9
- Damp heat, cyclic (endurance)	N/A	5.10
<b>Durability of operational reliability, corrosion resistance</b>		
- Sulphur dioxide (SO <sub>2</sub> ) corrosion (endurance)	Pass	5.11
<b>Durability of operational reliability, shock and vibration resistance</b>		
- Shock (operational)	Pass	5.12
- Impact (operational)	Pass	5.13
- Vibration, sinusoidal (operational)	Pass	5.14
- Vibration, sinusoidal (endurance)	Pass	5.15
<b>Durability, electrical stability</b>		
- Electromagnetic compatibility (EMC), immunity (operational)	Pass	5.16
<b>Durability of operational reliability, resistance to ingress</b>		
- Enclosure protection	Pass	5.17



Issued:  
Burgas, 19 July 2019

Embossed stamp of "Dedal - A&C" Ltd.

Manager:



Attestation & Certification

arch. Galina Vasileva

*Camerano, January 2021*

## *Certificate of Conformity*

### **ELANFIRE CEI 20-36, 20-37, EN50200**

We, ELAN SRL, **CERTIFY** that the cables marked with:

**"ELANFIRE <Sect. >- CEI 20-22/III CEI 20-36 - CEI 20-37- EN 50200 PH120 - CEI 36762 C-4 (U<sub>0</sub>=400V) - CE <date of production>"**

are manufactured in accordance with the following requirements:

CEI 20-22 III; CEI 20-11; CEI 20-29; (IEC 60332-3; BSEN 50265);

CEI 20-36 (IEC 60331; BS 6387 CWZ; EN50200);

CEI 20-37 (IEC 60754; IEC 61034; BSEN 50267; BSEN 50268)

CEI UNEL 36762:

Directive 2002/95/CE (RoHS)

#### MANUFACTURING TECHNICAL FEATURES

##### **1. UNIPOLAR WIRES:**

Unipolar wires (0,50 - 1,00- 8/10 - 10/10 - 13/10) are insulated in glass/mica fire resistant tape and LSZH cross-link E29 fire retardant compound. They have good resistance to low and high temperatures and they are fire resistant according to CEI 20-36; IEC 60331; BS 6387; EN50200 (PH120).

They pass the test of voltage according to CEI 20-20 standard: 5 minutes with 2000 V. in dry current without any crack of insulation covering

##### **2. SHIELDING:**

The wires are twisted and the shielding is made of:

- Coupled ribbon of aluminium/polyester foil 9/12 microns.
- Drainage wire in tinned copper braid conductors.
- Polyester ribbon 12 micron thick placed on joined cables according to CEI 46-5 standard.

##### **3. JACKET:**

The jacket is in red **LSZH** compound (M1 type according to CEI 20-11) and it is fire retardant according to CEI 20-22/III (IEC 60332-3; BSEN 50265) Standards and with low smoke and zero halogen according CEI 20-37 (IEC 60754; IEC 61034; BSEN 50267; BSEN 50268).

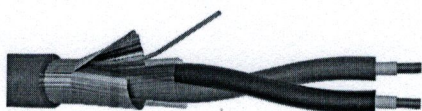
Cables marked as C-4 (U<sub>0</sub>=400V) owing to their technical characteristics and the positive results obtained by passing the tests and can be installed with electrical power cables marked both 450/750V, and 0,6/1 Kv according to CEI UNEL 36762.

*Elan Srl*

**SCHEDA TECNICA - TECHNICAL DATA SHEET**

Gen. 2021

**ELANFIRE SCHERMATO EN50200 (PH120) RIGIDO**  
**ELANFIRE SHIELDED EN50200 (PH120) RIGID**



**Costruzione**  
Construction

<b>Conduttore interno</b> Conductor	<b>rigido in rame rosso</b> solid red copper
<b>filo di 8/10</b> single wire 8/10	rame rosso 8/10 red copper 8/10
<b>filo di 10/10</b> single wire 10/10	diametro - diameter Ø 2,30 mm. rame rosso 10/10 red copper 10/10
<b>filo di 13/10</b> single wire 13/10	diametro - diameter Ø 2,60 mm. rame rosso 13/10 red copper 13/10
	diametro - diameter Ø 3,00 mm.

**Isolamento in nastro di vetro/mica resistente al fuoco e guaina in mescola reticolata tipo E4 a norma CEI 20-105**  
 Insulation mica/glass fire resistant tape and crosslinked compound E4 according to CEI 20-105

<b>8/10</b>	Spessore - Thickness >0,50mm
<b>10/10</b>	Spessore - Thickness >0,50mm
<b>13/10</b>	Spessore - Thickness >0,60mm

<b>Assemblaggio - Assembly</b>	Twisted pairs
<b>2x8/10</b> passo=80mm	spire/metro=13
<b>2x10/10</b> passo=85mm	spire/metro=12
<b>2x13/10</b> passo=85mm	spire/metro=12

**Schermatura - Shielding (coverage 100%)** Ø 0,8 mm

Nastro accoppiato ALL/POL - Polyester Tape/Aluminium foil

Drenaggio in rame stagnato - Tinned copper drainage wire

**Guaina esterna semicompressa in mescola termoplastica LSZH non propagante l'incendio a norma CEI 20-22 III (IEC 60332-3) e a bassa emissione di fumi e gas tossici secondo CEI 20-37 (IEC 60754; IEC 61034; BSEN 50267; BSEN 50268) e CEI UNEL 36762.**  
 Semi-pressed jacket in red LSZH compound fire retardant according to CEI 20-22 III (IEC 60332-3) standards and low smoke and zero halogen according CEI 20-37 (IEC 60754; IEC 61034; BSEN 50267; BSEN 50268) and CEI UNEL 36762 standards.

Guaina rossa - Red Jacket

**Caratteristiche elettriche**  
Electrical characteristics

**Parametro - Parameter** **Valore - Value**

**Tensione d'esercizio - nominal voltage**  
 Filo - wire: 8/10 - 10/10 - 13/10 ≤100V

**Tensione di prova - Test voltage (1min/50Hz)**  
 Filo - wire: 8/10 - 10/10 - 13/10 2000V

<b>Resistenza elettrica max a 20°C</b> electrical resistance 20°C	Max	<b>8/10</b>	36 Ω/km
		<b>10/10</b>	22 Ω/km
		<b>13/10</b>	13 Ω/km

**Tabella colori - colours table**

<b>8/10 - 10/10 - 13/10</b>	
1. rosso - red	3. bianco - white
2. nero - black	4. blu - blue

**Guaina - Jacket**

Resistenza min isolamento 20°C  
 Min.insulation resistance 20°C 200 MΩ/km

Tensione conforme CEI 36762 C-4 (U<sub>0</sub>=400V)  
 Voltage according to CEI 36762 C-4 (U<sub>0</sub>=400V) 400V

**Caratteristiche meccaniche - Mechanical Characteris**

Temperatura d'esercizio Operating Temperature Range	-15°C → +80°C
Raggio minimo di curvatura Min. Bend Radius (Install)	10 x Ø

**Marcatura/Marking**

ELANFIRE "Sect." - CEI 20-22/3-5 - CEI EN 60332-3-25 - CEI 20-37 - EN 50200 (PH120) - CEI 20-105 - UNI 9795 - CEI 36762 C-4 (U<sub>0</sub>=400V) - CE - "date"

Codice	Descrizione	Diametro [mm]	Spessore Guaina	Peso [kg/km]	Confezione
Code	Description	Diameter	Thickness [mm]	Weight	Packaging
28280-R	2 x 8/10 + SCH.	7,20	>0,80	45,00	100/500mt
28480-R	2 X 2 x 8/10 + SCH.	9,40	>0,80	86,00	100/500mt
28290-R	2 x 10/10 + SCH.	7,20	>0,80	60,00	100/500mt
28230-R	2 X 13/10 + SCH.	7,60	>0,90	70,00	100/500mt