

LUN10F

Technical data



- Singlephase 2 wire meter
- CE certified on 50470 standards
- Non-volatile memory
- 24 logs of index storage memory
- 24 units terminal cover intrusion registry and warning
- Main cover intrusion registry and warning
- 24 logs of phase failure registry
- Clips and screws MS-58
- Previous month data index display on LCD screen
- Instant current, voltage, power factor and frequency display on LCD screen
- Load Profile 15 minutes / 90 days (expandable to 365 days)

Date: 22.02.2022

File name: LUN10FTECHDATAEN- LUN Series LUN10F Technical Data EN

Revision history

Version	Date	Comments
a	22.02.2022	First release.

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All product information are subject to change without notice.

General**Functions**

Measurement:

-Combined bi-directional measurement

-Single-phase/Two-wire

Communication:

-Bi-directional communication with optical port

Inputs and outputs:

-Optical port for local reading, configuration and para- meterisation

Control buttons:

-Scroll button for display

LCD display:

-8 digits for register value display

-Units of measure on display

-Multi-energy units of measure

Voltage and frequency**Nominal voltage U_n**

LUN10F 1 x 230/400 VAC

Extended operating voltage range80% – 115% U_n **Nominal frequency f_n** 50 Hz ($\pm 2\%$)**IEC-specific data****Current****Base current I_b**

5 A

Maximum current I_{max}

Metrological 100 A

Thermal 100 A

Short-circuit ≤ 10 ms30 x I_{max} **Measurement accuracy****LUN10F**Active energy, to EN 50470-1/50470-3
(IEC 62052-11/62053-21) class 1**Measurement behaviour****Starting current**According to IEC/EN 0.4% I_b Typical approximately 0.25% I_b **MID-specific data****Current****Reference current I_{ref}**

5 A

Minimum current I_{min}

0.25 A

Maximum current I_{max}

100 A

Thermal current I_{th}

100 A

Measurement accuracy**LUN10F**

According to EN 50470-1/50470-3 class B

Measurement behaviour**Starting current I_{st}** 0.4 % of I_{ref} (≤ 20 mA)

General data**Operating behaviour**

Voltage failure (power-down)

Voltage (for $U_n=230/400\text{ V}$) $< 175\text{ V}$ Function standby $< 5\text{ s}$ Detection of energy direction / phase voltage $< 3\text{ s}$ Voltage $> 180\text{ V}$ **Power consumption**

Total power consumption of the meter

Without communication:

Active power at U_n (typical) $< 0.6\text{ W}$ Apparent power at U_n (typical) $< 2.0\text{ VA}$

Temperature range

Operation (meter) -40 °C to $+70\text{ °C}$ Operation (LCD display) -25 °C to $+60\text{ °C}$ Storage -40 °C to $+85\text{ °C}$

Temperature coefficient

Range -40 °C to $+70\text{ °C}$ Average value (typical) $\pm 0.01\%$ per KAt $\cos\phi=1$ (from 0.1 Ib to Imax) $\pm 0.05\%$ per KAt $\cos\phi=0.5$ (from 0.2 Ib to Imax) $\pm 0.07\%$ per K

Extended environmental conditions according to IEC/EN 62052-31

Maximum operating altitude 2000 m

Climatic conditions -25 °C to $+55\text{ °C}$ Ingress protection according to IEC/EN 60529
IP54**Electromagnetic compatibility**

Electrostatic discharges according to IEC/EN 61000-4-2

Contact discharge 8 kV

Air discharge 15 kV

Electromagnetic RF fields according to IEC/EN 61000-4-3

80 MHz to 2 GHz 10 and 30 V/m

Radio interference suppression according to IEC/CISPR 22
class B

Fast transient burst test according to IEC/EN 61000-4-4

Current and voltage circuits under load

according to IEC 62053-21 4 kV

Surge test according to IEC/EN 61000-4-5

Current and voltage circuits 4 kV

Insulation strength

Insulation strength

4 kV at 50 Hz for 1 minute

Impulse voltage 1.2/50 μs

According to IEC 62052-11 (EN 50470-1) 4 kV

Electrical safety

Electrical safety according to IEC/EN 62052-31

Overvoltage category III

Utilisation category UC3

Protective class according to IEC/EN 62052-11
and IEC 62052-31

Insulation class II

Calendar clock

Normal operation

Accuracy (at $+23\text{ °C}$) $\pm 0.5\text{ s/day}$

(EN 62054-21 requirement for time switches: 0.5 s)

Reserve running

Accuracy (at $+23\text{ °C}$) $< 1\text{ s/day}$

(EN 62054-21 requirement for time switches: 1.0 s)

Back-up time (power reserve)

With battery 1 10 years

Battery type ER14250

With battery 2 10 years

Battery type CR2032

Display

Characteristics

Type LCD liquid crystal display

Digit size value field 6.68 mm

Number of digits value field 9

Digit size code field 4.5 mm

Number of digits code field 4

Inputs and outputsAccording to IEC/EN 62053-31 class B
(class A possible with resistor value change)

Configurable as pulse counter, alarm, remote Supply

Control Switch button or rate control

Optical pulse output	active energy
Type	red LED
Pulse length settable from	2 to 40 ms
Pulse constant	1000 imp/kWh
Material	Brass
Phase Terminal Diameter	Ø6.7 mm
Neutral Terminal Diameter	Ø6.5 mm
Terminal type	2 screws for phaseterminal, 4 screws for neutral terminal (2 screws per way)
Screw Dimensions	M5 X 9
Screw Type	Phillips-Slotted Combi Fillister Head
Screw Head Dimension	Maximum Ø7 mm
Screw Material	Zn-plated steel, Tin-plated steel, nickel plated, brass, etc. Material can be varied
Ideal value of Screw Tightening Torque	1,5 Nm
Connection with the conductor	Conductor(shunt) is assembled to phase terminal with 2 screws There is another screw (behalf of the neutral conductor) for neutral terminal connection
Phase conductor connection screws dimension, type, material	2pcs M4 x 6, Pan head Phillips-Slotted Combo Material: Brass plated (draft), optional: Zn-plated steel, Tin-plated steel, nickel plated, etc. Material can be varied
Neutral conductor connection screws dimension, type, material	1 pc M4 x 8, Pan head Phillips-Slotted Combo Material: Brass plated (draft), optional: Zn-plated steel, Tin-plated steel, nickel plated, etc. Material can be varied
RS 485 terminals:	Brass-coated Zamak, 2 screws
RS 485 terminal screws:	2 pcs M3x7, 2 pcs M3x5

Communication interfaces

Optical interface	
Type	serial, bi-directional interface
Protocol	according to IEC/EN 62056-21

Material

Base Cover	Flame retardant Polyamide 6 reinforced with 20% of glass fiber, Halogenated flame retardant grade, compliance with RoHs derivatives, with rating UL94 V0 and glow-wire at 960°C (Opaque, GREY G62)
Top Cover	POLYCARBONAT UL-94 V2 (Transparent)
Terminal Cover	POLYCARBONAT UL-94 V2 (Transparent)
Name Plate	Polystrol 486M (HIPS) UL94 HB (Opaque, laser applicable)
LCD Holder	POLYCARBONAT UL-94 V2 (Opaque)

Weight and dimensions

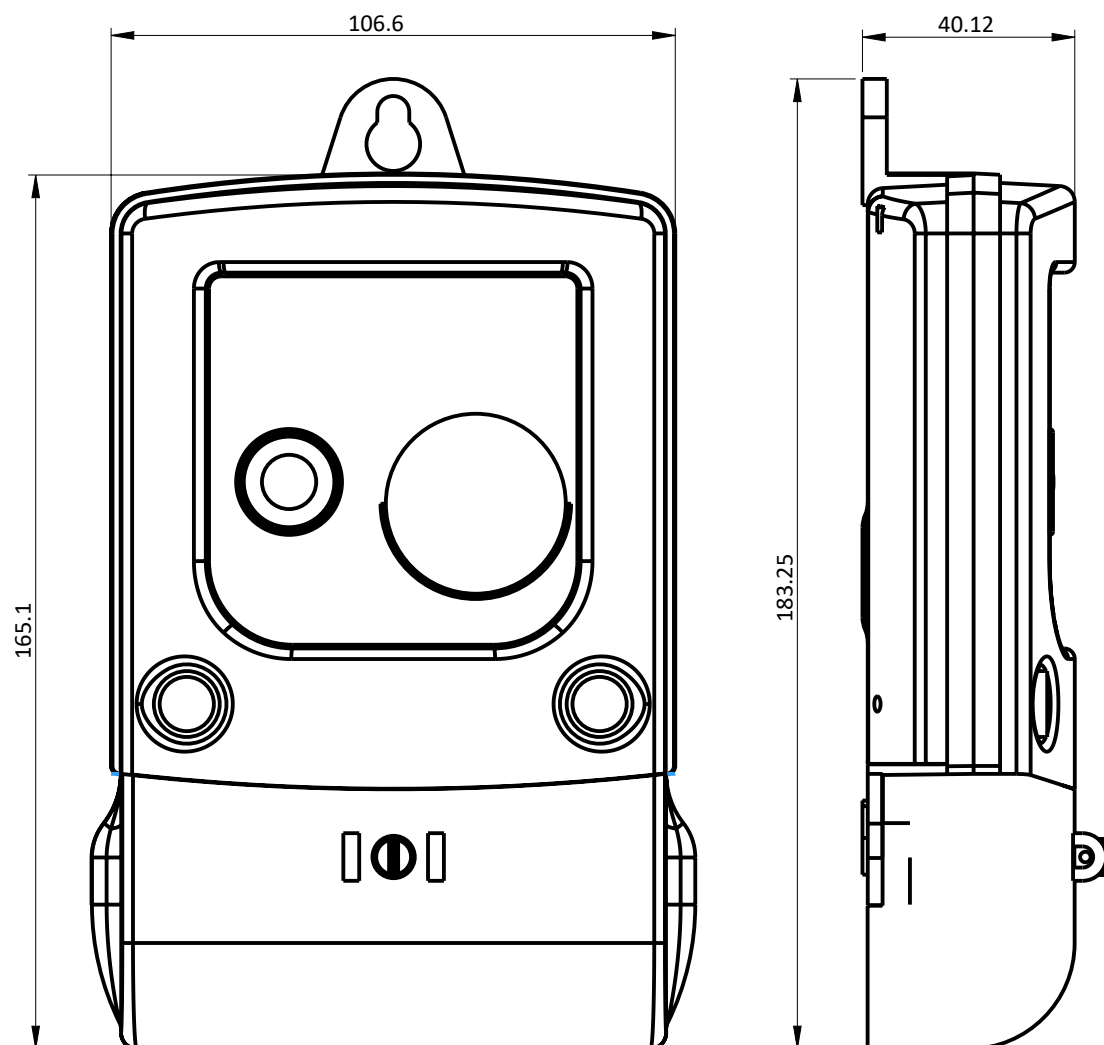
Weight	approximately 290 gr.
Width/height/depth	114/184/46 mm

Optional Features

RS 485	optional
Type	serial, bi-directional interface
Protocol	according to IEC/EN 62056-21

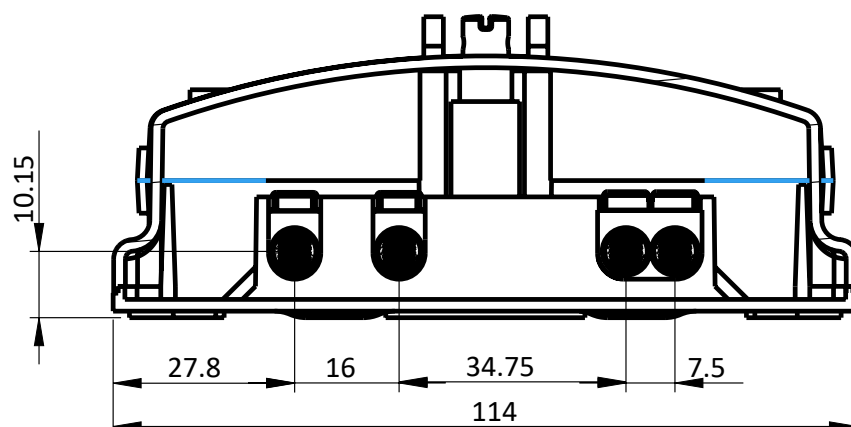
BS Connection Type

Dimensions (with terminal cover)

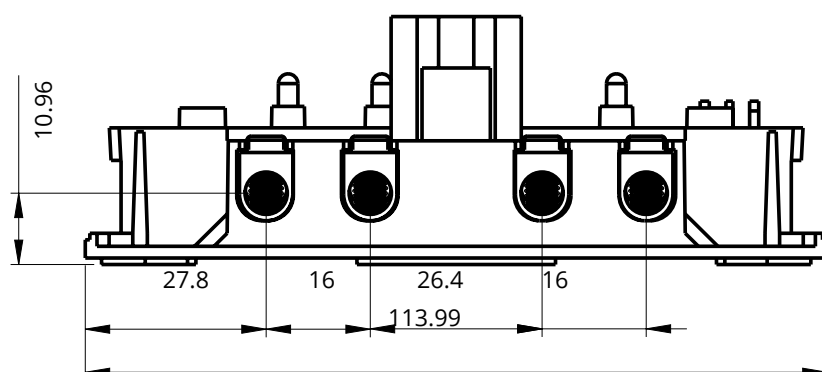


Dimensions of connection terminals

PPNN Version



PNNP Version





10039 Str. No:23
Atatürk O.S.B.
35620 Çiğli İzmir
TÜRKİYE



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WWW.LUNATR.COM

LUNA

Contor static monofazat de energie electrica
tip LUN10F

PAȘAPORT TEHNIC

Producător: LUNA ELECTRIK SAN. VE TIC. A.Ş.
10.001 Str. No:9 Atatürk O.S.B.; 35620 Çiğli / İzmir - TÜRKİYE;
Tel: +90 232 472 15 45 Fax: +90 232 472 15 50
www.lunatr.com

Certificat de acceptare:

№ de fabricare,
Data, ora,

corespunde parametrilor tehnici indicați în manualul de exploatare.

1. DESTINAȚIE

Mijloc de măsurare utilizat pentru măsurarea consumului de energie electrică în scopul decontării energiei electrice între furnizor și consumator.

Contor static monofazat de energie electrică tip LUN10F se încadrează în categoria dispozitivelor de măsurare cu tarif simplu de interes public. Principiul de funcționare al contorului se bazează pe utilizarea unor blocuri electronice de măsurare (elementul de măsurare este construit în bază de transformator de curent), care realizează conversia tensiunilor și curenților aplicate la intrare în impulsuri de ieșire, proporționale cu energia electrica. Integrarea și arhivarea se efectuează de către microprocesor.

2. CARACTERISTICILE TEHNICE DE BAZĂ

Clasa de exactitate la măsurarea energiei	B
Valori de referință ale tensiunii nominale	230 V
Valori nominale pentru curentul de bază	5 A
Curent maxim	100 A
Valori nominale ale frecvenței	50 Hz
Constanta contorului	1000 imp/kWh
Puterea absorbită activă circuit de tensiune	nu mai mult 0,75 VA / 0,4W
Puterea absorbită aparentă pentru circuit de curent	nu mai mult 0,1 VA
Temperatura de funcționare nominală	de la -40°C până la +70°C
Clasa de protecție	IP 54
Mărimi de gabarit, max: Înălțimea	115 mm
Lungimea	168 mm
Lațimea	45 mm

3. COMPLETAREA

Contor de energie electrică	1 buc.
Ambalaj	1 buc.
Pașaport	1 buc.

4. GARANȚIILE PRODUCĂTORULUI și TERMENUL de EXPLOATARE

Producătorul garantează corespunderea contorului de energie electrică cerințelor documentației tehnice doar în cazul respectării condițiilor de transportare, păstrare, montare și exploatare.

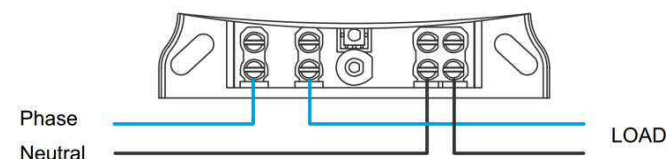
Termenul de garanție constituie **24 luni** de la data livrării.

Condițiile de garanție pe teritoriul Republicii Moldova sunt asigurate de către Techno Retail SRL mun.Chisinau str.Ginta Latina 12/6, tel.**0-22-903-000**.

Termenul de exploatare 24 ani.

Instalarea contoarelor de energie electrică va fi efectuată numai de către persoane calificate (licențiate în acest domeniu).

5. SCHEMA DE CONECTARE



6. VERIFICAREA METROLOGICĂ

Contor static monofazat de energie electrică tip LUN10F ... este supus verificării metrologice periodice cu perioada de verificare - 96 luni .

Data	Tipul verificării	Rezultatele verificării	Semnătura verificatorului	Amprenta mărcii metrologice de verificare	Buletin de verificare

AB UYGUNLUK BEYANI (No 0002)
EU DECLARATION OF CONFORMITY

1. Cihaz modeli/Cihaz : LUN10F
Instrument model/Instrument

Sayacın seri numarası:
Serial number of the meter:

2. Üretici adı ve adresi : LUNA A.S.
Name and address of the manufacturer
10.001 Str. No:9
Ataturk O.S.B.
Cigli-Izmir-TURKEY

3. Bu uygunluk beyanı üreticinin sorumluluğu altında verilir.
This declaration of conformity is issued under the sole responsibility of the manufacturer.

4. Beyanın konusu:
Object of declaration:

5. Yukarıda belirtilmiş olan uygunluk beyanı aşağıdaki ilgili AB uyumlandırma mevzuatı ile uyumludur:	The object of the declaration described above is in conformity with the relevant Union harmonisation legislation:
-Üye devletlerin ölçü aletleri pazarındaki uyumluluğu gerçekleştirmek üzere yasalarının uyumluluğu hakkındaki Avrupa Parlamentosu ve Konseyi'nin 2014/32/EU direktifi -WELMEC Kılavuzu 11.1, Sayı 4 -WELMEC Kılavuzu 7.2, Sayı 5 -OIML R 46 -1/-2 Sürüm 2012 (E) -Direktif 2015/13/EU	-Directive 2014/32/EU of the European Parliament and of the Council of 26 February 2014 on the harmonisation of the laws of the member states relating to the making available on the market of measuring instruments. -Welmec Guide 11.1, Issue 4 -Welmec Guide 7.2, Issue 5 -OIML R 46 -1/-2 Edition 2012 (E) -Directive 2015/13/EU

6. Uyumluluğun beyan edildiği ilgili standart referansları:
References to the relevant harmonised standards to which conformity is declared:

7. İlgili MODÜL B uygunluk değerlendirme prosedürlerini gerçekleştiren ve yayınlayan 1783 sayılı onaylanmış kuruluş (Türk Standartları Enstitüsü)

The notified body No. 1783 (Turkish Standards Institution) performed conformity assessment procedures MODULE B and issued:

AB Tip Onayı Belge No : 1783-MID-065
EC type-approval certificate No

İlgili MODÜL D uygunluk değerlendirme prosedürlerini gerçekleştiren ve yayınlayan 1432 sayılı onaylanmış kuruluş (Slovenska legalna metrologia n.o.)

The notified body No. 1432 (Slovenska legalna metrologia n.o.) performed conformity assessment procedures MODULE D and issued:

Kalite Yönetim Sistemi Onay No : SK-09-015D
Approval on a Quality Management System No

8.Firma adına imza: Tarih:
Signed for and on behalf of: Date

Izmir,
Mustafa KARABAGLI

Yönetim Kurulu Başkanı
(Chairman of the Board)

**WARRANTY
CERTIFICATE**

LUNA

WARRANTY PERIOD : 5 YEARS
TERM OF REPAIR : 20 BUSINESS DAYS

Customer

Brand LUNA

Type Electronic Electricity Meter

Model LUN10F

Serial Number

Product

Manufacturer

APPROVAL

Name: LUNA ELEKTRİK ELEKTRONİK SAN. VE TİC. A.Ş.

Address: 10001 Sokak No:9 A.O.S.B. 35620 Çiğli / İZMİR

Tel& Fax: (0 232) 472 15 45 & (0 232) 472 15 50

e-mail: info@lunatr.com

LUNA ELEKTRİK ELEKTRONİK
SANAYİ VE TİCARET A.Ş.
10001 Sokak No:9 A.O.S.B.
Çiğli / İZMİR
Çiğli V.D. 609 047 2390

Vendor

Name:

Address:

Tel& Fax:

Invoice Date & Number:

Stamp- Signature



TÜRK STANDARDLARI ENSTİTÜSÜ
TURKISH STANDARDS INSTITUTION

EU - TYPE EXAMINATION CERTIFICATE

2014/32/EU Measuring Instruments Directive

1783-MID-065

In accordance with Measuring Instruments Directive dated February 26, 2014 and numbered 2014/32/EU of the European Union Parliament and "Ölçü Aletleri Yönetmeliği (Measuring Instruments Directive)" numbered 2014/32/AB which was published in Official Journal of Turkish Republic dated 29.06.2016 and numbered 29757:

Manufacturer : LUNA ELEKTRİK ELEKTRONİK SAN. VE TİC. AŞ.
Atatürk Organize San. Böl. 10001. Sokak No:9 Çiğli / İZMİR

Essential requirements Applied : MID Annex I and Annex MI-003

Name of Measuring Instrument : Single-Phase Active Electrical Energy Meter

Type : LUN10F

Environmental Classes

- Climatic -40 °C / +70 °C
- Mechanic M1
- Electromagnetic E2

Project Number : 1902-19/12995

Conformity Assessment Report : 1902-MID-065/2019-01

Date of issue : 24.01.2019

Valid until : 23.01.2029

Total Page Number : 10

Sezai DOĞAN
Director of Directives
Ankara 24.01.2019 Rev 00



This certificate is only valid with annex and TSE-Notified Body 1783 seal.

www.tse.org.tr / Necatibey Cad. No: 112 Bakanlıklar - ANKARA / +90 312 416 62 00

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TURKISH STANDARDS INSTITUTION

Certificate No:1783-MID-065/Rev. 00

1. General Information about Electical Energy Meter

1.1 Designation

Electronical electric meter measuring active electrical energy and maximum power and showing these data on the LCD Display, auto-correcting day light saving time in summer and winter, keeping the intended data and programs in memory, getting a line on these data when required.

1.2 Design

Essential Parts of the Meter

- Electronic (circuit) card
- Lower cover-housing
- Upper cover
- Terminal cover

1.3 Metrological Characteristic

Measurement of the electrical energy

1.4 Software

21.01

1.5 Supplementary equipments

RS485 communication port

1.6 Equipments out of the scope of MID

RS485 communication port





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- Upper cover
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1.3 Metrological Characteristic

Measurement of the electrical energy

1.4 Software

21.01

1.5 Supplementary equipments

Not applicable

1.6 Equipments out of the scope of MID

Not applicable





TÜRK STANDARDLARI ENSTİTÜSÜ

TURKISH STANDARDS INSTITUTION

Certificate No:1783-MID-065/Rev. 00

2. Technical data

Type	LUN10F
Definition	1 phase, 2 wired, multi tariff, with demand meter, outdoor, active electronic electrical meter
Accuracy Class	Class B
Software Version No	21.01
Checksum	29D2C1AF
Place	İzmir
Meter Location	Outdoor
Meter Integrity	Meter integrity is preserved by seal and intervention from the outside is inhibited
Sealing Type	Plastic Pounding Seal
Circuit Type	Directly connected
Frequency	50 Hz
Reference Voltage (V)	230 V
Operating Voltage (V)	Between 0,8Un and 1,15Un
Starting Current (Ist)	20 mA (0,04Itr)
Minimum Current (Imin)	0,25 A
Transitional Current (Itr)	0,5 A
Reference Current (Iref)	5 A
Maximum Current (Imax)	100 A
Meter Constant	1000 imp/kWh
Operating Temperature	-40°C ...+70°C (3K7)
Relative Humidity	Max. %95
IP Rating	IP54 (Outdoor)
Protection Class	II (Two)
Mechanical Environment Class	M1
Electromagnetic Environment Class	E2
Voltage Circuit Power Consumption	< 2W, 10 VA
Current Circuit Power Consumption	< 4 VA
Electrostatic Discharges	Contact: 8 kV Air: 15 kV
Impulse Voltage	6 kV
Communication	Optic





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Certificate No:1783-MID-065/Rev. 00

3. Marking

The following data shall be marked on the water meter

- manufacturer's name and/or registered trademark,
- phase number and connection cable number
- year of production and serial number,
- current gauging interval, minimum current (I_{min}), reference current (I_{ref}), maximum current (I_{max})
- reference frequency (Hz),
- meter constant
- accuracy class
- electric security class güvenlik sınıfı (double square mark for meters with insulating lining)
- operating temperature interval or environmental class)
- nominal voltage (primary and secondary voltage if with transformer),
- EU-Type examination certificate number,
- conformity marking according to the regulation in regards to the measuring instruments

3.1 Registered trademark of the manufacturer

The manufacturer uses the following figure inscription commercial trademark on the electrical energy meters



4. Sealing

Lower housing of the meter and upper cover are screwed together and it is stamped by attaching a plastic seal on the gap above the screw. Terminal cover is sealed by authorised personnel after the meter has been mounted.

5. Terms of Production, putting into use and usage

5.1 Production

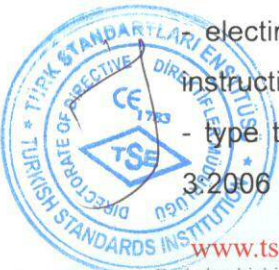
- no special terms identified for production

5.2 Putting into use

electrical energy meters must be installed in the plumbing as mentioned in installation instructions and/or user's manual of the manufacturer.

- type tests of the meter were carried out according to EN 50470-1:2006 and EN 50470-

3:2006



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5.3 Requirements for usage

- must be used in accordance with the terms of the user's manual given by the manufacturer.

6. Documentation used within the scope of assessment

- Testing report dated 05.12.2018 and EL18-0049 issued by Eldaş Elektrik, Elektronik San. ve Tic. A.Ş.
- Manufacturer's technical file, technical drawings, component lists

7. Standards and regulations used within the scope of assessment

7.1 Regulations, harmonised standards and mandatory normative documents

- Measuring Instruments Directive numbered 2014/32/AB published in the Official Journal dated 29.06.2016 and number 29757
- EN 50470-1:2006
- EN 50470-3:2006
- OIML R 46:2012

7.2 Reference documents

- WELMEC Guide 7.2

8. Conclusion

Structural, technical and metrological parameters of the meter must be compatible with the documentation submitted with this Type Examination Certificate. The meter must meet the requirements of the Measuring Instruments Directive numbered 2014/32/EU of the European Union Parliament and the Council and the Measuring Instruments Directive numbered 2014/32/AB published in the Official Journal dated 29.06.2016 and number 29757 of Turkish Republic.

9. Annexes

Annex-1: Illustrative pictures of the water meter

Annex-2: Demonstration of Sealing

Annex-3: Marking

Annex 4: Meter Dimensions





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Annex-1:



Front Picture of Meter



Back Picture of Meter





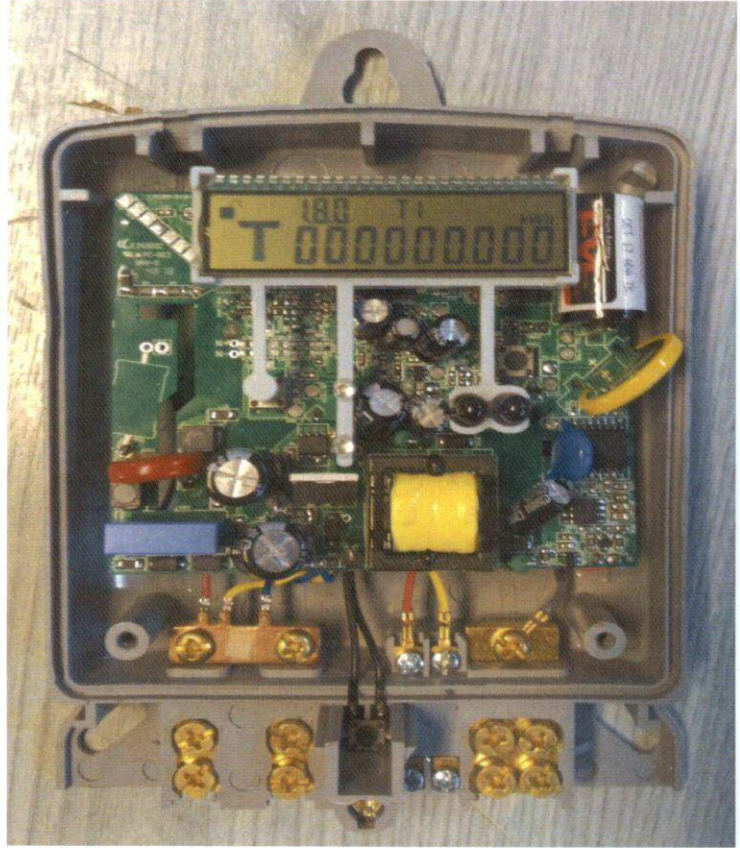
TÜRK STANDARDLARI ENSTİTÜSÜ

TURKISH STANDARDS INSTITUTION

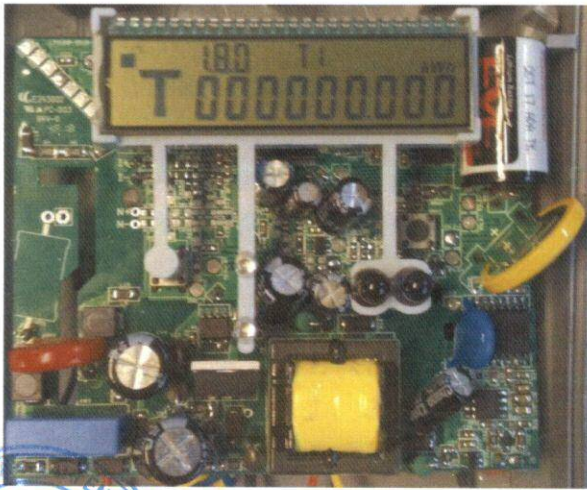
Certificate No:1783-MID-065/Rev. 00



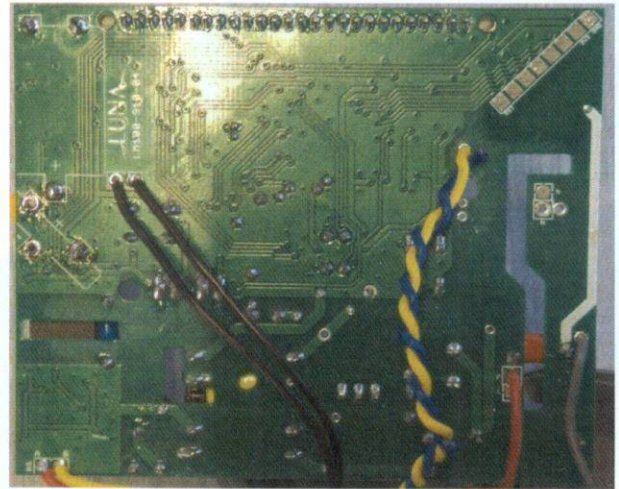
Right View Picture Of Meter



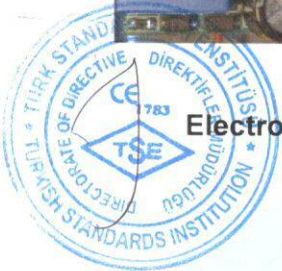
Inside view of the Meter



Electronic Card Front View



Electronic Card Back View





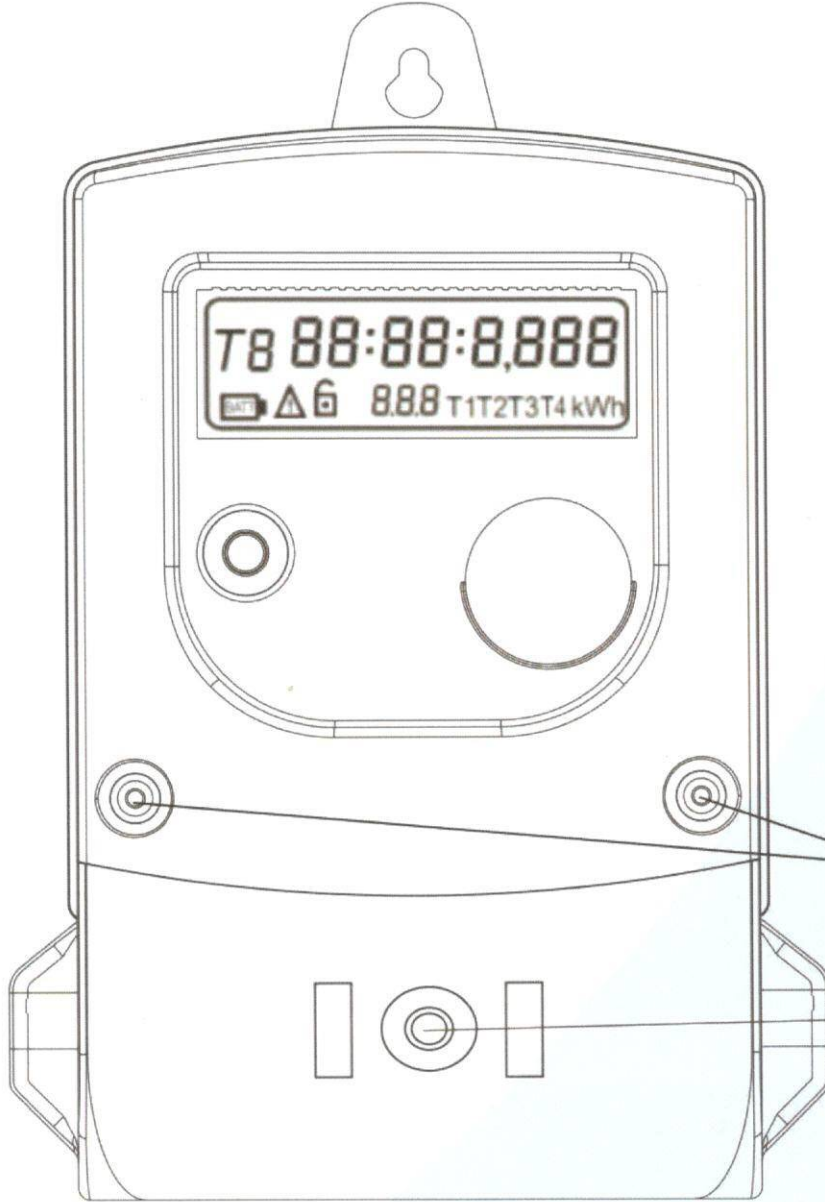
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Annex-2:

Sealing



**LUNA A.Ş.
Mühür**

**Dağıtım Şirketi
Mühür**





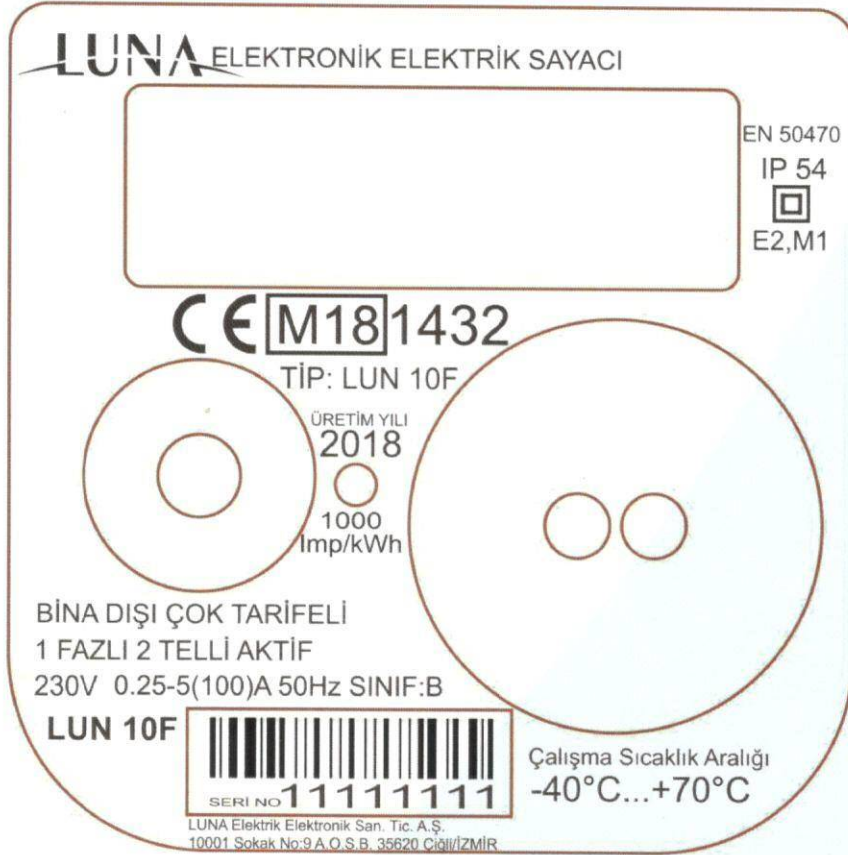
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Annex 3 :

Marking





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Annex 4 :

Meter Dimensions

