



SZUTEST Uygunluk Değerlendirme A.Ş. / İstanbul - Türkiye
Onaylanmış Kuruluş 2195



(1) **EU-TYPE EXAMINATION CERTIFICATE**
(Annex III – Module B)

(2) Equipment or protective system intended for use in potentially explosive atmospheres — Directive 2014/34/EU

(3) EU-Type Examination Certificate Number: **2195 25 ATEX 002 X**

(4) Equipment or Protective System : **Electromagnetic Flowmeter**

Model No: **MFE600-E**

(5) Manufacturer/Applicant: **MICRO SENSOR CO.,LTD.**

(6) Manufacturer/Applicant Address: **No.18 Yingda Road, Baoji 721006, Shaanxi, P.R.China.**

(7) This equipment or protective system and/or any acceptable variation there to is specified in the schedule to this certificate and the documents there in referred to.

(8) Szutest Uygunluk Değerlendirme A.Ş. Notified Body number 2195 in accordance with Article 17 of Directive 2014/34/EU of the European Parliament of the Council, dated 26 February 2014, certifies that this equipment has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment or protective system intended for use in potentially explosive atmospheres given in Annex II of the Directive. The examination and test results are recorded in the confidential documentation under the reference number.

Report No: SZUTEST-25022UR03-Rev00

Date: 22.01.2025

(9) Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

EN IEC 60079-0:2018 , EN 60079-1:2014, EN 60079-11:2012 EN 60079-18:2015

(10) If the sign "X" is placed after the certificate number, it indicates that the equipment or protective system is subject to special conditions of safe use specified in the schedule to this certificate.

(11) This EU-Type examination certificate relates only to the design and construction of the specified equipment or protective equipment in the scope of 2014/34/EU Annex III. Future requirements of the Directive applies to the production process and the provision of equipment or protective system. These are not discussed in this certificate.

(12) Marking of the equipment or protective system must include the following:



II 2G Ex db ib mb IIC T6 Gb



Yayın Tarihi: 24.01.2025
Issue Date

Revizyon Tarihi/No: 00
Revision Date


Salih Oğuz SAVAŞ
Genel Müdür Yardımcısı
Deputy General Manager



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(13) ANNEX

(14) EU-Type Examination Certificate Number: **2195 25 ATEX 002 X**

(15) **Description of Equipment and/or Protective System:** MFE600-E Type electromagnetic flowmeter (hereinafter referred to as electromagnetic flowmeter) is an advanced technology developed and developed by our fully intelligent flowmeter, which has the characteristics of high measurement accuracy, high reliability, high stability, long service life and so on.

Models, Serial No: MFE600-E

Performance index:

Bore	Flanged type DN6 ~ DN1600
	Sanitary type DN6 ~ DN50
	Thread type DN6 ~ DN50
	Cpiped DN10 ~ DN300
Certainty of	$\pm 0.2\%$, $\pm 0.5\%$
The electrode form	Standard fixed electrode, anti-fouling electrode
	DN6~ DN20 a pair of measurement electrodes, no ground electrode
	DN25 ~ DN500 a pair of measuring electrodes and a pair of ground electrodes
	DN600 And the above two pairs of measuring electrodes and a pair of ground
Structure type	Integrated and split type (100m)
Electrode	316L, titanium (Ti), Harbin (HB, HC), tantalum (Ta), tungsten carbide (WC)
Lining	Neoprene rubber (CR), natural rubber (NR), polyurethane rubber (PU)
	Polytetrafluoroethylene (PTFE), F46, and PFA
Measuring	Stainless steel
Flange and	Carbon steel (conventional), stainless steel (optional)
Gauge outfit	Aluminum alloy die-casting
Power supply voltage	100VAC~240VAC
	12VDC, 24VDC
	Battery power supply (provide field LCD display, RS485 output, wireless output,
	Solar energy plus storage battery

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(15) Description of Equipment and/or Protective System:

Performance index:

Output signal	4mA ~ 20mADC (load resistance 0Ω ~750Ω, active output)
	Hart output
	Frequency, pulse output (passive, active output is optional)
	Upper and lower limit alarm output (rated 30VDC, 100mA)
	RS485 output (standard ModBus protocol), RS232 output
	Profibus-DP, Profibus-PA
	2G, 4G, NB, and LoRa wireless output
Electrical	M20×1.5
Levels of	IP65: dust, water spray; IP68: submersible type (only sensor part, converter IP65)
Ambient	Temperature of the working environment -20°C ~ +60°C
Storage	-40°C ~ +60°C
Relative humidity	5%~90%

Ambient temperature and temperature class:

Ambient temperature range $-20^{\circ}\text{C} \leq T_{amb} \leq +60^{\circ}\text{C}$.

The temperature class of equipment is T6 for the gas environment.

Degree of protection (IP code):

The equipment enclosures were verified for an IP65 ingress rating.

Warnings:

WARNING: Do not operate with the lid open in explosive atmospheres!

(16) Reference Report Number

(16.1) The manufacturer as the holder of this EU type-examination certificate, is required to comply with the production control requirements in accordance with the directive 2014/34/EU for marketing its product.

(16.2) Routine Test:

-The manufacturer shall carry out routine tests prescribed in clause 27 of EN 60079-0.

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(16.3) Installation conditions:

The equipment is foreseen to be installed in locations where there are environmental conditions, as clearly specified in clause 1 of EN 60079-0. Installation and use in atmospheric and environmental conditions that are out of the above-mentioned intervals request special considerations and additional measures by the side of the installer or user:

These should be specified to the manufacturer by the user;

It is not a requirement of the applicable standards listed in (9) that the certification body confirms suitability for the adverse conditions. Installation of equipment shall be done according to EN 60079-14 Standard requirements.

(17) Special Conditions for Safe Use:

This product is an explosion-proof product, and the following conditions of use should be followed during installation and use:

1. Product explosion-proof marking: II 2G Ex db ib mb IIC T6 Gb.
2. It is strictly prohibited to disassemble the product in an explosive atmosphere.
3. If found fault, must be repaired by professional personnel, is strictly prohibited to operate privately.
4. WARNING: Do not operate with the lid open in explosive atmospheres!
5. Ambient temperature range: -20°C ~ +60°C.
6. When installing this product, the interface must be fitted with matching devices (e.g. plugs, etc.) that are suitable for the explosion protection class of the product and are ATEX certified.
7. The free end of the cable lead of this product should be protected by appropriate explosion-proof measures (the connection port has obtained ATEX certification of the connection device).

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(18) **Essential Health and Safety Requirements:**

Covered by standards listed at 9.

This Certificate does not indicate compliance with electrical safety and performance requirements other than those expressly included in the Standards listed in (9).

This Certificate does not cover hazards coming from environmental conditions different from those clearly and precisely indicated and covered EN 60079-0:2018.

(19) **Documentation List:**

No	File Name	Received Date	Rev.
01	Company Profile	30.11.2024	00
02	Description of product	30.11.2024	00
03	Product Design	30.11.2024	00
04	Risk Analysis	30.11.2024	00
05	User Guideline	30.11.2024	00
06	Result of Design	30.11.2024	00
07	Test Report & Test Record	30.11.2024	00

(20) **Variation:** 1st issue

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