SZUTEST

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 032 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-25213UR03-Rev00
Date: 01.08.2025

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

EN IEC 60079-0:2018, EN 60079-11:2012

(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:

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Rükiye BALKAN
Genel Müdür Yardımcısı
Deputy General Manager

Yayın Tarihi: 04.08.2025
Issue Date

Revizyon Tarihi/No: 00
Revision Date

SZUTEST UYGUNLUK DEĞERLENDİRME A.Ş.
Tatlısu Mahallesi, Akif İnan Sk. No: 1 Ümraniye 34775 İSTANBUL / TÜRKİYE

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

(13) ANNEX

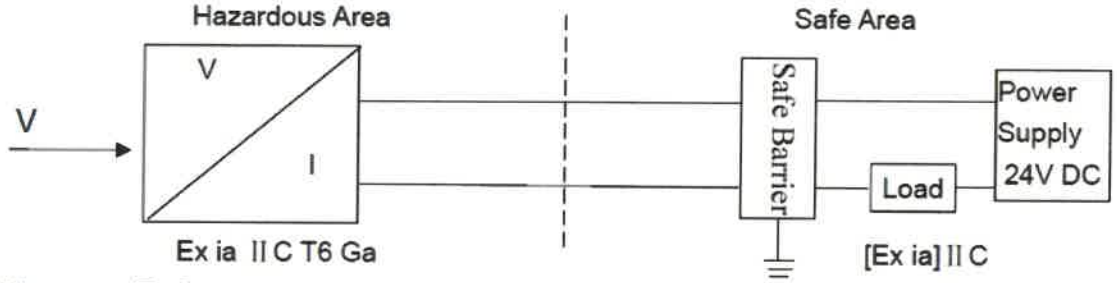
(14) EU-Type Examination Certificate Number: **2195 25 ATEX 032 X**

(15) **Description of Equipment and/or Protective System**: MFE600-E Electromagnetic Flowmeter (referred to as the electromagnetic flowmeter) is a fully smart flow measuring instrument using advanced international technology, known for its high accuracy,reliability, stability, and long service life.

Models, Serial No: MFE600-E

Electrical Characteristics:

2-wire 4 - 20mA DC intrinsically safe system as shown below:



Flowmeter Ex Specs:
Ui:28VDC Ii:93mADC
Li:0 mH Ci:0.0uF Pi:0.65W

Barrier Output Ex Specs:

Intrinsically Safe Matching Conditions:
Uo ≤ Ui, Io ≤ Ii, Po ≤ Pi, Co ≥ Ci + Cc, Lo ≥ Li + Lc
Notes:
Ui: Maximum Input Voltage Max input voltage allowed at the flowmeter terminals.
Uo: Maximum Output Voltage Max open-circuit voltage from the safety barrier.
Ii: Maximum Input Current Max input current allowed at the flowmeter terminals.
Io: Maximum Output Current Max output current from the safety barrier.
Ci: Maximum Internal Capacitance Internal capacitance at the flowmeter input.
Co: Maximum External Capacitance Max external capacitance allowed at the safety barrier output.
Li: Maximum Internal Inductance Internal inductance at the flowmeter input.
Lo: Maximum External Inductance Max external inductance allowed at the safety barrier output.
Cc: Maximum Cable Capacitance Max cable capacitance: Cc = Co − Ci.
Lc: Maximum Cable Inductance Max cable inductance: Lc = Lo − Li.

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(13) ANNEX

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

Ambient temperature and temperature class:
Ambient temperature range **-20°C ≤Tamb≤ +40°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.

(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:

a. The shell of the product is made of aluminum, and when used in zone 0, it must be protected from ignition hazards caused by impact or friction!
b. When this product is used for electrical connection in explosive atmosphere conditions, it must be connected to the associated device installed in the safe area to form a safe explosion-proof system, and the parameters of the associated device are shown in the instruction manual.

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(13) ANNEX

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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	02.07.2025	00
02	Description of product	02.07.2025	00
03	Product Design	02.07.2025	00
04	Risk Analysis	02.07.2025	00
05	User Guideline	02.07.2025	00
06	Result of Design	02.07.2025	00
07	Test Report & Test Record	02.07.2025	00

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

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