IECEx Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION
IEC Certification System for Explosive Atmospheres

for rules and details of the IECEx Scheme visit www.iecex.com

Certificate No.: **IECEx CCVE 26.0004X**

Certificate history:

Status: **Current**

Issue No: 0

Date of Issue: 2026-09-29

Applicant: **IG Metran, JSC**
15, Novogradsky Avenue,
Chelyabinsk 454103
Russian Federation

Equipment: **Metran-750 Level Transmitter**

Optional accessory:

Type of Protection: **flameproof enclosures "d', intrinsic safety "i", dust ignition protection by enclosure "t"**

Marking:

Option E7:
Ex ia IIC T6…T1 Ga / Ex db IIC T6…T1 Gb,
Ex ia IIIC T85°C…T450°C Da / Ex tb IIIC T85°C…T450°C Db

Option I7:
Ex ia IIC T5…T1 Ga
Ex ia IIIC T_{200}100 °C…T_{200}450 °C Da

Option K7:
Ex ia IIC T6…T1 Ga / Ex db IIC T6…T1 Gb,
Ex ia IIIC T85°C…T450°C Da / Ex tb IIIC T85°C…T450°C Db
or
Ex ia IIC T5…T1 Ga
Ex ia IIIC T_{200}100 °C…T_{200}450 °C Da

IP66/IP67

Approved for issue on behalf of the IECEx Certification Body: **Elena Sovetova**

Position: **Deputy Head of CB NANIO CCVE**

Signature:
(for printed version)

Date:
(for printed version)

1. This certificate and schedule may only be reproduced in full.
2. This certificate is not transferable and remains the property of the issuing body.
3. The Status and authenticity of this certificate may be verified by visiting www.iecex.com or use of this QR Code.

Certificate issued by:

NANIO CCVE
Zavod ECOMASH, VUGI Settlement
Lyubertsy, Moscow region
140004
Russian Federation

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Certificate No.: **IECEx CCVE 26.0004X**

Date of issue: 2026-09-29 Issue No: 0

Manufacturer: **IG Metran, JSC**
15, Novogradsky Avenue,
Chelyabinsk 454103
Russian Federation

Manufacturing locations:

This certificate is issued as verification that a sample(s), representative of production, was assessed and tested and found to comply with the IEC Standard list below and that the manufacturer's quality system, relating to the Ex products covered by this certificate, was assessed and found to comply with the IECEx Quality system requirements.This certificate is granted subject to the conditions as set out in IECEx Scheme Rules, IECEx 02 and Operational Documents as amended

STANDARDS :
The equipment and any acceptable variations to it specified in the schedule of this certificate and the identified documents, was found to comply with the following standards

IEC 60079-0:2017 Explosive atmospheres - Part 0: Equipment - General requirements
Edition:7.0

IEC 60079-1:2014 Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"
Edition:7.0

IEC 60079-11:2011 Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"
Edition:6.0

IEC 60079-26:2021 Explosive atmospheres - Part 26: Equipment with Separation Elements or combined Levels of Protection
Edition:4.0

IEC 60079-31:2013 Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure "t"
Edition:2

This Certificate **does not** indicate compliance with safety and performance requirements other than those expressly included in the Standards listed above.

TEST & ASSESSMENT REPORTS:
A sample(s) of the equipment listed has successfully met the examination and test requirements as recorded in:

Test Report:

RU/CCVE/ExTR26.0004/00

Quality Assessment Report:

RU/CCVE/QAR25.0003/01

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EQUIPMENT:
Equipment and systems covered by this Certificate are as follows:

The Metran-750 Level Transmitter is designed for continuous measurement of the level of solid, granular, liquid, viscous, evaporating, and heterogeneous media, and/or the interface between such media.

The level transmitters provide continuous conversion of the measured level into a digital-analog output signal of direct current (4–20 mA) with the HART digital protocol.

The level transmitters consist of a level transducer, a level sensor, and a probe (rigid, flexible, or coaxial).

The housing of the level transducer is made of stainless steel type 316, grade CF8M ASTM A743 or an aluminum alloy SG100B ASTM B85 (UNS A03600 commercial designation 360) or AK9 or AK12, coated with polyurethane or powder polyester paint. The housing of the level transducer is closed with two threaded covers. One of the covers can have a viewing window (if equipped with an LCD indicator), sealed with a compound. The housing is divided into a connection compartment containing a terminal block and a main compartment containing the printed circuit boards. The housing is made with two threaded cable entries (M20 x 1,5) for installing cable glands.

The probe is connected to the level transducer via a level sensor made of stainless steel Type 321 or 12X18H10T, inside which there is a printed circuit board, a waveguide, and insulators.

Ui≤30 V, Ii≤120 mA, Pi ≤ 0,9 W, Li=70 μH, Ci=0,01 μF

The dependence of the temperature class on the ambient temperature and the process temperature is shown in Table 1 of the Annex 1 of this certificate. For the detailed designation of the the Metran-750 Level Transmitter refer to the Annex 1 of this certificate.

SPECIFIC CONDITIONS OF USE: YES as shown below:
- connection of external electrical circuits to Metran-750 Level Transmitter must be carried out through Ex cable glands that have valid IECEx certificates of conformity with the corresponding type of explosion protection and safety characteristics that do not impair the safety characteristics of the level transmitter; cable glands must be protected against loosening.

- unused openings in the housings of Metran-750 Level Transmitter must be closed with plugs that have a valid IECEx certificate of conformity with corresponding type of explosion protection and characteristics that do not impair the safety characteristics of the level transmitter. When installed in the level transmitter plugs must be secured against loosening. The use of plugs with a threaded adapter is not permitted;

− explosion proof connections of Metran-750 Level Transmitter cannot be repaired;

- the dependence of the temperature class on the ambient temperature and the process temperature is shown in the table 1 of Annex 1 of this certificate. When mounting Metran-750 Level Transmitter in the technological process, it must be ensured that the parts of Metran-750 Level Transmitter that come into contact with the explosive medium are not heated by the environment or the process medium to temperatures exceeding those specified;

- Metran-750 Level Transmitter must be powered through intrinsically safe barriers (intrinsically safe power supplies) that have a valid IECEx certificate of conformity;

- both total inductance and total capacitance of the intrinsically safe circuits of the transmitter, connected to intrinsically safe equipment, and connecting cables, must not exceed the maximum values specified on the intrinsically safe barrier or intrinsically safe power supply from the hazardous area side;

- Metran-750 Level Transmitter with the type of “intrinsic safety ‘i’” does not withstand the 500 V AC test according to IEC 60079-11 clause 6.3.13, which must be taken into account for proper mounting.

- it is necessary to protect the housing of the Metran-750 Level Transmitter made of an aluminum alloy from friction or mechanical impacts that can cause sparking when mouting and during operation in zone 0.

Annex:

Annex 1 to IECEx CCVE 26.0004X.pdf

NANIO CCVE
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Lyubertsy, Moscow region
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Annex 1 to IECEx CCVE 26.0004X **Issue No. 0**

The dependence of the temperature class on the ambient temperature and the process temperature is shown in Table 1.

Table 1

Temperature class (maximum surface temperature)	Maximum rated ambient temperature range (°C)	Maximum temperature of measured process medium (°C)
T6 (+ 85 °C)	- 60 °C ... + 70 °C (Ex db ia, Ex ia tb)	+ 80
T5 (+ 100 °C)	- 60 °C ... + 80 °C (Ex db ia, Ex ia tb) - 60 °C ... + 70 °C (Ex ia)	+ 95
T4 (+ 135 °C)	- 60 °C ... + 85 °C (Ex db ia, Ex ia tb), - 60 °C ... + 70 °C (Ex ia)	+ 130
T3 (+ 200 °C)	- 60 °C ... + 85 °C (Ex db ia, Ex ia tb), - 60 °C ... + 70 °C (Ex ia)	+ 195
T2 (+ 300 °C)	- 60 °C ... + 85 °C (Ex db ia, Ex ia tb) , - 60 °C ... + 70 °C (Ex ia)	+ 290
T1 (+ 450 °C)	- 60 °C ... + 85 °C (Ex db ia, Ex ia tb) , - 60 °C ... + 70 °C (Ex ia)	+ 440

Designation of the Metran-750 Level Transmitter

Metran-750	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20

21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37

1	Model (A - for measuring the level of the medium; B - for measuring the level of the medium and the level of the interface between media; C – for measuring the level of granular media)
2	Output signal type (H – 4–20 mA with HART protocol and 2-wire circuit)
3	Material and type of housing (D - two-section aluminum; T – two-section stainless steel)
4	Explosion protected design I7 –IECEx Certificate "intrinsic safety "i" (Ex ia Ga, Ex ia Da), E7 –IECEx Certificate "flameproof enclosures "d" (Ex db ia) or "dust ignition protection by enclosure "t" (Ex ia tb) ; K7 – IECEx Certificate "intrinsic safety "i" или "flameproof enclosures "d" or "dust ignition protection by enclosure "t" (Ex ia Ga, Ex ia Da, Ex db ia, Ex ia tb)
5	Options that are not related to explosion protection
6	Operating temperature and pressure range (S – -40…+150 °C, -0.1…4 MPa; M – -40…+150 °C, -0.1…10 MPa; H - -60…+400 °C, -0,1…34,5 MPa; C - -196…+200 °C, -0,1…34,5 MPa)
7-14	Options that are not related to explosion protection
Additional options	
15	Indicator option (M5 – built-in LCD with control buttons)
16	Terminal block option (T1 – terminal block with protection against transient processes)
17-19	Options that are not related to explosion protection
20	Low-temperature version* (BR5 – the metrological characteristics of the level transmitter are ensured at an ambient temperature of -50 °C; BR6 – the metrological characteristics of the level transmitters are ensured at an ambient temperature of -60 °C).
21-37	Options that are not related to explosion protection
* Standard version: from - 40 °C to + 85 °C	