NATIONAL CONFORMITY ASSESSMENT SYSTEM «FUNCTIONAL SAFETY»

REGISTRATION NUMBER РОСС RU.32383.04ЕДРО

№ 0140811

CERTIFICATE OF CONFORMITY

№ ROSS RU.FS01.H00177/26

VALID FROM 13.10.2026 *TO* 12.10.2029

PRODUCT CERTIFICATION BODY

Certification Center "ENDURANCE" LLC, address: 115114, Russia, Moscow, 2nd Paveletsky proezd, building 5, building 1, floor 5, premises VII, room 11. Certification number in SDS ROSS RU.32383.04ЕДРО.002. Phone number: +7-495-799-07-93, e-mail address: info@endce.ru.

PRODUCTS

Level Transmitters Metran-750. The products are manufactured in accordance with Technical Specifications TU 4214-109-51453097-2025 «Metran-750 Level Transmitters» Serial production.

OKPD

26.51.52.120

COMPLIES WITH STANDARDS

IEC 61508-1:2010, IEC 61508-2:2010, IEC 61508-3:2010.
Safety Integrity Level up to and including SIL 3.

HS code

9026 10 290 0

MANUFACTURER

Joint Stock Company «Industrial Group Metran» (IG Metran, JSC). Registered office and principal place of business: 454103, Russia, Chelyabinsk Region, Chelyabinsk Urban Okrug, Central District, Chelyabinsk, Novogradskiy Avenue, 15.

CERTIFICATE HOLDER

Joint Stock Company «Industrial Group Metran» (IG Metran, JSC).
Registered office and principal place of business: 454103, Russia, Chelyabinsk Region, Chelyabinsk Urban Okrug, Central District, Chelyabinsk, Novogradskiy Avenue, 15. Phone: +7(351)242-44-44; email: info@Metran.ru

BASIS FOR CERTIFICATION

Functional safety assessment report No. FS01.0177/FS dated October 12, 2026; certificate of conformity of the manufacturer's quality management system to the requirements of GOST R ISO 9001-2015 (ISO 9001:2015), No. ROSS RU.FK82.00357. Operation manual: 14.5387.000.00 (Appendix K).

ADDITIONAL INFORMATION

Certification scheme: 4.
Functional safety parameters, as well as other information identifying the product, are specified in the Annex (form No. 0041574).

HEAD OF THE CERTIFICATION BODY *A.Y. Verveyko*

EXPERT *E.O. Zubrev*

СЕРТИФИКАТ УПБ | SIL CERTIFICATE

NATIONAL CONFORMITY ASSESSMENT SYSTEM
«FUNCTIONAL SAFETY»
REGISTRATION NUMBER РОСС RU.32383.04ЕДРО

№ 0041574

APPLICATION

SHEET 1

TO THE CERTIFICATE OF CONFORMITY

ROSS RU.FSO1.HO0177/26

FUNCTIONAL SAFETY CHARACTERISTICS OF PRODUCTS

1. SYSTEMATIC CAPABILITY

The design process for Metran-750 level transmitters complies with the requirements for Safety Integrity Level 3 (SIL 3) to prevent the introduction of systematic errors during the development and creation of hardware and software. The device's resistance to systematic failures is rated at Systematic Capability 3 (SC 3).

2. RANDOM CAPABILITY

Architectural constraints on hardware safety integrity have been applied in accordance with Route 1_H.
Metran-750 level transmitters are classified as Type B elements/subsystems.
Metran-750 level transmitters are suitable for use in both low-demand and high-demand modes of operation for safety functions.
Regarding architectural constraints, Metran-750 level transmitters may be used in safety functions with the following Safety Integrity Levels (SIL):
- SIL 2, with a hardware fault tolerance (HFT) of 0;
- SIL 3, with a hardware fault tolerance (HFT) of 1.

Failure rates for Metran-750 level transmitters are provided in Table 1.

TABLE 1

Safety function interface	λSD, FIT	λSU, FIT	λDD, FIT	λDU, FIT	SFF, %
4-20 mA	9,18	37,15	942,40	49,75	95,21 %
[1] FIT = 1 failure /10^9 hours - unit of failure rate measurement					

3. FUNCTIONAL SAFETY VERIFICATION

The Safety Integrity Level (SIL) of a safety function that incorporates a level-measuring instrument must be verified by calculating the average probability of failure on demand (PFDavg) for low-demand mode, or the average frequency of a dangerous failure (PFH) for high-demand mode.
The calculation must account for the architecture of all subsystems, the rates of dangerous detectable and undetectable failures, automatic diagnostics, common-cause failures, the interval and effectiveness of proof tests, and the mean time to restoration. The architectural constraints of each subsystem must be verified based on the element type, the safe failure fraction (SFF), and the hardware fault tolerance (HFT). The SIL rating specified for a level-measuring instrument represents the maximum verified capability for its application; it does not automatically determine the SIL of the entire safety function.

HEAD OF THE CERTIFICATION BODY *A.Y. VERVEYKO*

EXPERT *E.O. ZUBREV*

NATIONAL CONFORMITY ASSESSMENT SYSTEM «FUNCTIONAL SAFETY»

REGISTRATION РОСС RU.32383.04ЕДРО

№ 0041573

APPLICATION

SHEET 2

TO THE CERTIFICATE OF CONFORMITY

ROSS RU.FSO1.H00177/26

CERTIFICATION CENTER "ENDURANCE" LLC, ADDRESS: 115114, RUSSIA, MOSCOW, 2ND PAVELETSKY PROEZD, BUILDING 5, BUILDING 1, FLOOR 5, PREMISES VII, ROOM 11. CERTIFICATION NUMBER IN SDS ROSS RU.32383.04ЕДРО.002. PHONE NUMBER: +7-495-799-07-93, E-MAIL ADDRESS: INFO@ENDCE.RU.

PERMISSION TO USE THE CONFORMITY MARK OF THE SYSTEM

№ №FSO1.00177/FS

VALIDITY PERIOD: FROM 13.10.2026 TO 12.10.2029

PERMISSION ISSUED:

JOINT STOCK COMPANY «INDUSTRIAL «GROUP METRAN» (IG METRAN, JSC).

REGISTERED OFFICE AND PRINCIPAL PLACE OF BUSINESS: 454103, RUSSIA, CHELYABINSK REGION, CHELYABINSK URBAN OKRUG, CENTRAL DISTRICT, CHELYABINSK, NOVOGRADSKIY AVENUE, 15. PHONE: +7(351)242-44-44; EMAIL: INFO@METRAN.RU

BASED ON CERTIFICATE NO. ROSS RU.FSO1.H00177/26
ALLOWS THE USE OF THE CONFORMITY MARK OF THE VOLUNTARY CERTIFICATION SYSTEM NATIONAL CONFORMITY ASSESSMENT SYSTEM "FUNCTIONAL SAFETY"
FOR THE PERIOD OF VALIDITY OF THE CERTIFICATE.

CONDITIONS FOR USING THE CONFORMITY MARK: IN ANY FORM THAT EXCLUDES THE POSSIBILITY OF INTERPRETING IT AS A CONFORMITY MARK FOR THE QUALITY OF WORK (SERVICES). IT IS PERMITTED TO USE THE CONFORMITY MARK IN ADVERTISING BOOKLETS, PROSPECTUSES, BROCHURES, POSTERS, FORMS OF ORGANIZATIONAL AND ADMINISTRATIVE DOCUMENTATION OF THE ORGANIZATION - CERTIFICATE HOLDER. THE CONFORMITY MARK IS APPLIED TO THE ACCOMPANYING AND TECHNICAL DOCUMENTATION IN ACCORDANCE WITH GOST 31816.

MAGE OF THE CONFORMITY MARK

HEAD OF THE CERTIFICATION BODY *A.Y. VERVEYKO*

EXPERT *E.O. ZUBREV*