



Physical-Technical Testing Institute
Ostrava - Radvanice



Type Examination Certificate

Equipment or Protective Systems Intended for Use
in Potentially Explosive Atmospheres
(Directive 2014/34/EU)

(1) Type Examination Certificate number:

FTZÚ 25 ATEX 0010X

(4) Product: Round mechanical index, type RM/LLQ-*.
Square mechanical index, type RM/TM-*.
(5) Manufacturer: Zhejiang Cangnan Instrument Group Co., Ltd.
(6) Address: No. 345 Strait Avenue, Lingxi Town, Cangnan County, Wenzhou City,
Zhejiang Province, 325800 China
(7) This product and any acceptable variation thereto is specified in the schedule to this certificate and the
documents therein referred to.
(8) The Physical-Technical Testing Institute certifies that this product has been found to comply with the
Essential Health and Safety Requirements relating to the design and construction of products intended
for use in potentially explosive atmospheres given in Annex II to Directive 2014/34/EU of the European
Parliament and of the Council, dated 26.02.2014.

The examination and test results are recorded in confidential Report number:

25/0010 dated 24.03.2025

(9) Compliance with the Essential Health and Safety Requirements has been assured by compliance with:
EN ISO 80079-36:2016, EN IEC 60079-0:2018

(10) If the sign "X" is placed after the certificate number, it indicates that the product is subject to Specific
Conditions of Use specified in the schedule to this certificate.
(11) This certificate relates only to the design and construction of the specified product according to
Directive 2014/34/EU. This certificate does not cover the manufacturing process.
(12) The marking of the product shall include the following:

Ex II 2G Ex h IIB T6 Gb

This certificate is valid till: **31.03.2030**

Responsible person:

Dipl. Ing. Lukáš Martinák
Head of Certification Body



Date of issue: 31.03.2025

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This certificate is granted subject to the general conditions of the FTZÚ, s.p.
This certificate may only be reproduced in its entirety and without any change, schedule included.

Physical-Technical Testing Institute, s.p., Pikartská 1337/7, 716 07 Ostrava - Radvanice, Czech Republic
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Physical-Technical Testing Institute
Ostrava - Radvanice

(13)

Schedule

(14) **Type Examination Certificate No. FTZÚ 25 ATEX 0010X**

(15) Description of Product:

Round mechanical index, type RM/LLQ-*-* and square mechanical index, type RM/TM-*-* is mechanical counter, which is part of the gas flow meters. It is designed for counting of the flowing medium in the gas flow meters. The round mechanical index cover is made from polycarbonate and the square mechanical index cover is made from aluminum. The flow rate reading is displayed on a mechanical rotary counter and it can be supplemented by the pulse box equipped with low frequency flow sensor. This pulse box is the Intrinsic safe simple apparatus according to the standard EN 60079-11:2012, clause 5.7. The moving of the mechanical rotary counter itself is through the magnet coupling and gear set. The transmission of the movement of the gas flow meter rotor to the number wheels of the mechanical rotary counter is non-contact type, magnetically. The reading of the movement of the mechanical rotary counter to the pulse box is also non-contact, magnetic. The level of protection assigned inside and outside of the round and square mechanical index correspond of EPL Gb.

Type key of round mechanical index, type RM/LLQ-*-*:

Round mechanical index: _____
Diameter DN [mm]: _____
Size G: _____

Type key of square mechanical index, type RM/TM-*-*:

Square mechanical index: _____
Diameter DN [mm]: _____
Size G: _____

(16) Report Number: 25/0010

(17) Specific Conditions of Use:

1. Ambient temperature range T_a : $-25^{\circ}\text{C} \leq T_a \leq +55^{\circ}\text{C}$.
2. The mechanical index be installed such way to avoid propagating brush discharges on the external surface of the mechanical index. For more information, see the Operating and maintenance manual.
3. The pulse box shall be connected to the intrinsically safe equipment at least for the zone 1.

Responsible person:

Dipl. Ing. Lukáš Martinák
Head of Certification Body



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(18) Essential Health and Safety Requirements:

Compliance with the Essential Health and Safety Requirements is covered by standards mentioned in clause (9) of this certificate.

(19) Drawings and Documents:

Number	Sheets	Date	Description
Index_3_2025	13	24.03.2025	User manual
Index_3_2025	2	24.03.2025	Ignition hazard assessment report
RM/LLQ-50-G40-3	1	26.06.2024	Drawing of round mechanical index
RM-50-G65.1	1	26.06.2024	Drawing of square mechanical index

Responsible person:

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Head of Certification Body

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