



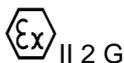
EU Type Examination Certificate CML 23ATEX1485 Issue 0

- 1 Equipment intended for use in Potentially Explosive Atmospheres Directive 2014/34/EU
- 2 Equipment **Two-Wire Universal Temperature Transmitter type 27HU-B-4, Two-Wire Universal Temperature Transmitter type 27U-B-4, RTD Transmitter type 27RS-B-4, RTD Transmitter type 27R-B-4 & Thermocouple Transmitter type 27TS-B-4**
- 3 Manufacturer **MG CO., LTD**
- 4 Address **5-2-55 Minamitsumori
Nishinari-ku Osaka
557-0063 Japan**
- 5 The equipment is specified in the description of this certificate and the documents to which it refers.
- 6 CML B.V., Chamber of Commerce No 67386717, Koopvaardijweg 32, 4906CV Oosterhout, The Netherlands, Notified Body Number 2776, in accordance with Article 17 of Directive 2014/34/EU of the European Parliament and 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 intended for use in potentially explosive atmospheres given in Annex II to the Directive.
- 7 The examination and test results are recorded in the confidential reports listed in Section 12.
- 8 If an 'X' suffix appears after the certificate number, it indicates that the equipment is subject to conditions of safe use (affecting correct installation or safe use). These are specified in Section 14.
- 9 This EU Type Examination certificate relates only to the design and construction of the specified equipment or component. Further requirements of Directive 2014/34/EU Article 13 apply to the manufacture of the equipment or component and are separately certified.
- 10 Compliance with the Essential Health and Safety Requirements, with the exception of those listed in the confidential report, has been demonstrated through compliance with the following documents:

EN IEC 60079-0:2018

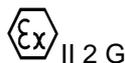
EN 60079-1:2014

- 10 The equipment shall be marked with the following:



Ex db IIC T5 Gb

Ta= -40°C to +80°C



Ex db IIC T6 Gb

Ta= -40°C to +70°C





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11 Description

The Two-Wire Universal Temperature Transmitter types 27**-B (**: HU, U, RS, R, TS) are flameproof equipment which converts electrical input signals from external sensors (such as resistance temperature sensors, thermocouples, etc) to 4 – 20 mA output signals.

The equipment comprises a number of PCB's and optional LED indicator mounted inside an aluminium or stainless steel flameproof type enclosure with threaded entries for cable glands, certified under CML 18ATEX1256X.

Ambient temperature range for T6: -40°C to +70°C

T5: -40°C to +80°C

27**-B – a b c d e M f N

(M: Option not affecting explosion protection – e.g. mounting hood)

(N: Option not affecting explosion protection – e.g. colour, mounting direction of transmitter)

Case	None	Aluminium die casting
	/S	Stainless steel die casting

Wiring Conduit	1	½ NPT
	2	M20 x 1.5

Terminal Block	0	Without
	T	With (*) = Not selectable for models without LED indicator

LED Indicator	0	Without
	1	With

Temperature Drift (model 27HU-B only)	0	Standard
	L	Ultra-low temperature drift

Ex approval	4	ATEX flameproof
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Model	HU	27HU-B
	R	27R-B



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	RS	27RS-B
	TS	27TS-B
	U	27U-B

12 Certificate history and evaluation reports

Issue	Date	Associated report	Notes
0	28 Mar 2024	R16974A/00	Issue of prime certificate

Note: Drawings that describe the equipment or component are listed in the Annex.

13 Conditions of Manufacture

The following conditions are required of the manufacturing process for compliance with the certification.

- i. Where the product incorporates certified parts or safety critical components, the manufacturer of the product defined on this certificate shall continually monitor these parts/components for any modifications introduced by the manufacturer(s) of these constituent parts. If the manufacturer of any constituent part introduces any changes which affect the compliance of the certified product that is the subject of this certificate, the manufacturer is required to have this certificate updated.

14 Specific Conditions of Use (Special Conditions)

None.

Certificate Annex

Certificate Number CML 23ATEX1485

Equipment Two-Wire Universal Temperature Transmitter type 27HU-B-4, Two-Wire Universal Temperature Transmitter type 27U-B-4, RTD Transmitter type 27RS-B-4, RTD Transmitter type 27R-B-4 & Thermocouple Transmitter type 27TS-B-4-4

Manufacturer MG CO., LTD



The following documents describe the equipment or component defined in this certificate:

Issue 0

Drawing No	Sheets	Rev	Approved date	Title
20063-08-N1	1 of 1	1	28 Mar 2024	27HU-B Flameproof Application Document (cover page)
20063-08-N2	1 of 1	-	28 Mar 2024	27HU-B Flameproof Contents
20063-08-N3	1 of 1	1	28 Mar 2024	27HU-B Flameproof Applicant Details
20063-08-N4	1 of 1	1	28 Mar 2024	27HU-B Flameproof Conformity
20063-08-N5	1 of 1	1	28 Mar 2024	27HU-B Flameproof Model Code
20063-08-N6	1 of 1	1	28 Mar 2024	27HU-B Flameproof Description
20063-08-N7 Page 1	1 of 1	1	28 Mar 2024	27HU-B Flameproof General Arrangement
20063-08-N7 Page 2	1 of 1	1	28 Mar 2024	27HU-B Flameproof General Arrangement
20063-08-N8	1 of 1	1	28 Mar 2024	27HU-B Flameproof Marking
20063-08-N9 Page 1	1 of 1	1	28 Mar 2024	27HU-B Flameproof Circuit Diagram
20063-08-N9 Page 2	1 of 1	1	28 Mar 2024	27HU-B Flameproof Circuit Diagram