# CERTIFICATE

(1) **EU-Type Examination**

(2) **Equipment or protective systems intended for use in potentially explosive atmospheres - Directive 2014/34/EU**

(3) EU-Type Examination Certificate Number: **KEMA 02ATEX1075 X** Issue Number: **5**

(4) Product: **Two-Wire Universal Temperature Transmitter Model B6U-… and Model B6U-B-……**

(5) Manufacturer: **MG CO., LTD.**

(6) Address: **5-2-55 Minamitsumori, Nishinari-ku, Osaka 557-0063, Japan**

(7) This product and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.

(8) DEKRA Certification B.V., Notified Body number 0344 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 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 the Directive.

The examination and test results are recorded in confidential test report number NL/DEK/ExTR11.0119/02.

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

**EN 60079-0 : 2012 + A11 : 2013** **EN 60079-11 : 2012**

except in respect of those requirements listed at item 18 of the Schedule.

(10) If the sign "X" is placed after the certificate number, it indicates that the product is subject to the Specific Conditions of Use specified in the schedule to this certificate.

(11) This EU-Type Examination Certificate relates only to the design and construction of the specified product. Further requirements of the Directive apply to the manufacturing process and supply of this product. These are not covered by this certificate.

(12) The marking of the product shall include the following:

Ex **II 1 G Ex ia IIC T6 ... T4 Ga**

Date of certification: 14 November 2023

DEKRA Certification B.V.

R. Schuller
Certification Manager



PRODUCTS RvA C 001

Throughout this document, a point is used as the decimal separator.



DEKRA Certification B.V. Meander 1051, 6825 MJ Arnhem P.O. Box 5185, 6802 ED Arnhem The Netherlands
T +31 88 96 83000 F +31 88 96 83100 www.dekra-product-safety.com Registered Arnhem 09085396

(13) # SCHEDULE

(14) **to EU-Type Examination Certificate KEMA 02ATEX1075 X** Issue No. **5**

(15) **Description**

The Two-Wire Universal Temperature Transmitters Model B6U-… and B6U-B-…… convert a millivolt input signal into a 4 to 20 mA signal, with HART protocol communication. The Temperature Transmitter is suitable for connection to e.g. a temperature sensor, a potentiometer or resistor. The B6U is enclosed in a body made of plastic. The B6U-B-…… is the B6U-……, fitted in an aluminium or stainless steel enclosure.

Optionally all types of Transmitters may be provided with a two button indicator. Scaling, linearization and other configurations are selectable via two control buttons.

Ambient temperature range: -40 °C to +80 °C for T4,
-40 °C to +65 °C for T5,
-40 °C to +50 °C for T6.

**Electrical data**

Supply/Output circuit (terminals + and -):
in type of protection intrinsic safety Ex ia IIC, only for connection to a certified intrinsically safe circuit with linear characteristics, with the following maximum values:
$U_i$ = 30 V; $I_i$ = 96 mA; $P_i$ = 0.72 W; $C_i$ = 0 μF; $L_i$ = 0 mH.

Input circuit (terminals 1, 2, 3 and 4):
in type of explosion protection intrinsic safety Ex ia IIC, with the following maximum values:
$U_o$ = 6.4 V; $I_o$ = 30 mA; $P_o$ = 48 mW; $C_o$ = 20 μF; $L_o$ = 20 mH.

**Installation instructions**

The manufacturers instructions shall be followed in detail to assure safe operation.

(16) **Report Number**

No. NL/DEK/ExTR11.0119/02.

(17) **Specific conditions of use**

1. When the enclosure of the Temperature Transmitter Model B6U-B-…… is made of aluminium alloy, when used in an explosive gas atmosphere requiring the use of apparatus of equipment category 1 G, the Temperature Transmitter Model B6U-B-…… must be installed so, that even in the event of rare incidents, an ignition source due to impact or friction between the enclosure and iron/steel is excluded.

2. On application of the Temperature Transmitter Model B6U-… in an explosive gas atmosphere requiring the use of apparatus of equipment category 1 G, precaution shall be taken to avoid danger of ignition due to electrostatic charges on the enclosure.

(18) **Essential Health and Safety Requirements**

Covered by the standards listed at item (9).

(19) **Test documentation**

As listed in Report No. NL/DEK/ExTR11.0119/02.