Type Examination Certificate CML 18ATEX1256X Issue 1

1 Equipment intended for use in Potentially Explosive Atmospheres Directive 2014/34/EU

2 Equipment **Universal Temperature Transmitter types B6U-B and B6U2-B**

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, 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 of Directive 2014/34/EU.

The examination and test results are recorded in the confidential reports listed in Section 12.

7 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.

8 This Type Examination certificate relates only to the design and construction of the specified equipment or component. Further requirements of Directive 2014/34/EU Annex VIII apply to the manufacture of the equipment or component and are separately certified.

9 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 60079-0:2018 EN 60079-1:2014

10 The equipment shall be marked with the following:

Ex II 2 G

Ex db IIC T4, T5, T6* Gb

Ta = -40 to +80°C, 65°C, 50°C

* The equipment temperature class is dependent upon the upper ambient temperature, refer to section 11

11 Description

The Universal Temperature Transmitters types B6U-B and B6U2-B are flameproof equipment which convert 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 mounted inside an aluminium or stainless steel enclosure with threaded entries for cable glands.

The following model numbers and options are covered by this certificate:

B6Ux-B – a b c d e f

Option	Any	Option not affecting explosion protection e.g. colour, direction of painting

Case	None	Aluminium die casting
	/S	Stainless steel die casting

Option	Any	Option not affecting explosion protection e.g. mounting method

Wiring conduit	0	½" G
	1	½" NPT
	2	M20 x 1.5

LCD display	0	Without
	1	With

Ex approval	0	None
	4	IECEx/ATEX flameproof
	A	IECEx/ATEX flameproof and intrinsically safe (this version is not covered by this certificate)

Model	None	B6U-B
	2	B6U2-B

The equipment temperature class is dependent upon the ambient temperature range as follows:

Ambient temperature range	Temperature class
-40°C to +50°C	T6
-40°C to +65°C	T5
-40°C to +80°C	T4

The equipment has the following electrical ratings:

Supply range 12 – 28 Vdc

Output current 4 – 20 mA

Variation 1

i. Update to Applicant/Manufacturer name.

12 Certificate history and evaluation reports

Issue	Date	Associated report	Notes
0	28 May 2019	R11891A/00	Issue of prime certificate
1	02 Jan 2024	R17244A/00	Introduction of Variation 1

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

13 Conditions of Manufacture

None.

14 Specific Conditions of Use (Special Conditions)

The following conditions relate to safe installation and/or use of the equipment.

i. Model number B6U2-B-Axxxxx has been designed to meet the requirements of flameproof and intrinsic safety. This certificate covers the flameproof certification only. The end-user shall permanently mark an “X” in the box adjacent to the flameproof markings when installing the equipment in accordance with this certificate. The equipment shall be installed in accordance with its instruction manual and with the requirements of EN 60079-14 for flameproof protection. Equipment which has been marked as having been installed in a flameproof installation shall not subsequently be re-used in an intrinsically safe installation.

Certificate Annex

Certificate Number	CML 18ATEX1256X
Equipment	Universal Temperature Transmitter types B6U-B and B6U2-B
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
MSY-D002-A05	1 of 1	3	16 May 2019	Model code
MSY-D002-A06	1 of 1	2	16 May 2019	General description
MSY-D002-A07	1 of 3	3	16 May 2019	Measures taken to obtain the required protection
MSY-D002-A07	2 & 3 of 3	2	16 May 2019	Measures taken to obtain the required protection
MSY-D002-A08	1 of 1	1	16 May 2019	Outline dimensions
MSY-D002-A09	1 of 1	9	16 May 2019	Housing assembly
MSY-D002-A10	1 of 1	1	16 May 2019	Block diagram
MSY-D002-A11	1 of 2	5	16 May 2019	Marking details
MSY-D002-A11	2 of 2	1	16 May 2019	Terminal block label details

Issue 1

Drawing No	Sheets	Rev	Approved date	Title
MSY-D002-A11	1 of 1	2	02 Jan 2024	B6U-B/B6U2-B Flameproof