

CERTIFICATE OF CONFORMITY



Member of the FM Global Group

1. HAZARDOUS (CLASSIFIED) LOCATION ELECTRICAL EQUIPMENT PER US REQUIREMENTS

2. Certificate No: **FM17US0044**
3. Equipment:
(Type Reference and Name) **B6U-B Two-Wire Universal Temperature Transmitter
6DV-B Loop Powered Indicator
27HU-B Two Wire Universal Temperature Transmitter
43AL1-B Loop Powered Digital Panel Meter**
4. Name of Listing Company: **MG CO., LTD.**
5. Address of Listing Company: **5-25-55 Minamitsumori,
Nishinari-Ku,
Osaka 557-0063, Osaka, Japan**

6. The examination and test results are recorded in confidential report number:

3015267 dated 9th October 2002

7. FM Approvals LLC, certifies that the equipment described has been found to comply with the following Approval standards and other documents:

FM 3600:2022, FM 3615:2022, FM 3810:2005, NEMA 250:1991

8. If the sign 'X' is placed after the certificate number, it indicates that the equipment is subject to specific conditions of use specified in the schedule to this certificate.

9. This certificate relates to the design, examination and testing of the products specified herein. The FM Approvals surveillance audit program has further determined that the manufacturing processes and quality control procedures in place are satisfactory to manufacture the product as examined, tested and Approved.

10. Equipment Ratings:

Explosionproof for Class I, Division 1, Groups B, C and D; and Dust-ignitionproof for Class II, Division 1, Groups E, F and G; Class III Division 1 hazardous (classified) locations, indoors and outdoors (NEMA TYPE 4X) with an ambient temperature rating of -40°C to +70°C or 80°C as indicated in Annex.

Certificate issued by:

J.E. Marquedant
VP, Manager - Electrical Systems

19 February 2024

Date

To verify the availability of the Approved product, please refer to www.approvalguide.com

THIS CERTIFICATE MAY ONLY BE REPRODUCED IN ITS ENTIRETY AND WITHOUT CHANGE

FM Approvals LLC. One Technology Way, Norwood, MA 02062 USA
T: +1 (1) 781 762 4300 F: +1 (1) 781 762 9375 E-mail: information@fmapprovals.com www.fmapprovals.com

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SCHEDULE

US Certificate Of Conformity No: FM17US0044



11. The marking of the equipment shall include:

See Annex

12. Description of Equipment:

General - The Model B6U-B, and 27HU-B Two Wire Universal Temperature Transmitters, the Model 6DV-B Loop Powered Indicator and 43AL1-B Loop Powered Digital Panel Meter are two wire transmitters for the measurement of temperature, or a loop powered panel meter or a remote indicator.

Construction - The Model B6U-B, and 27HU-B Two Wire Universal Temperature Transmitters, the Model 6DV-B Loop Powered Indicator and 43AL1-B Loop Powered Digital Panel Meter use the same housing which consists of a single compartment electronics housing with thread-on window cover. The enclosure is provided with two (2) ½ inch NPT openings.

Ratings - The Model B6U-B, and 27HU-B Two Wire Universal Temperature Transmitters, the Model 6DV-B Loop Powered Indicator and 43AL1-B Loop Powered Digital Panel Meter operate at 12-28 Vdc. The transmitters are rated for use in an ambient temperature range of -40°C to +80°C as indicated in the Annex.

13. Specific Conditions of Use:

None

14. Test and Assessment Procedure and Conditions:

This Certificate has been issued in accordance with FM Approvals US Certification Requirements.

15. Schedule Drawings

A copy of the technical documentation has been kept by FM Approvals.

16. Certificate History

Details of the supplements to this certificate are described below:

Date	Description
9 October 2002	Original Issue.
23 October 2003	<u>Supplement 1:</u> Report Reference: – 3015267rev031023 dated 23 rd October 2003 Description of the Change: Additional of stainless steel housing variant.
3 June 2004	<u>Supplement 2:</u> Report Reference: – 3020819 dated 3 rd June 2004 Description of the Change: Addition of 43AL-B series Two Wire DC Meter.

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Date	Description
13 April 2006	<u>Supplement 3:</u> Report Reference: – 3015267rev060329 dated 13 th April 2006 Description of the Change: Addition of 27HU-B Two Wire Universal Temperature Transmitter and 6DV-B Loop Powered Indicator.
8 May 2015	<u>Supplement 4:</u> Report Reference: – RR200608 dated 8 th May 2015 Description of the Change: Addition of 43AL1-B Two Wire DC meter.
19 June 2015	<u>Supplement 5:</u> Report Reference: – RR201153 dated 19 th June 2015 Description of the Change: Modification to 43AL-B and 43AL1-B
19 February 2017	<u>Supplement 6:</u> Report Reference: – RR208435 dated 19 th February 2017 Description of the Change: Modification of transformer and optocoupler. Change to certificate format.
19 February 2024	<u>Supplement 7:</u> Report Reference: RR240186 dated 19 February 2024. Description of the Change(s): Delisted 43AL-B Two Wire DC Meter. Updated Standards 3600 and 3615.

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ANNEX

27HU-B-abcdefgh. Two Wire Universal Temperature Transmitter.

Markings:

Class I Division 1, Groups B, C, D; T6 Ta = -40°C to +70°C; T5 Ta = -40°C to +80°C; Type 4X

Class II, Division 1, Groups E, F, G, Class III, Division 1; T6 Ta = -40°C to +70°C; T5 Ta = -40°C to +80°C; Type 4X

Description of Equipment:

Model Code

a = Safety Certification: 3.

b = Temperature Drift: 0 or L.

c = LED Indicator: 0 or 1.

d = Terminal Block: 0 or T (not selectable for models without LED indicator, option C).

e = Wiring Conduit: 1.

f = Mounting Bracket: 0 or 1.

g = Material of Case and Cover: None or /S.

h = Special Specification: None or -X.

43AL1-B Loop Powered Digital Panel Meter.

Markings:

Class I Division 1, Groups B, C, D; T6 Ta = -40°C to +60°C; T5 Ta = -40°C to +70°C; Type 4X

Class II, Division 1, Groups E, F, G, Class III, Division 1; T6 Ta = -40°C to +60°C; T5 Ta = -40°C to +70°C; Type 4X

Description of Equipment:

Model Code

a = Safety Certification: 3.

b = Terminal Block: 0 or T.

c = Wiring Conduit: 1.

d = Mounting Bracket: 0 or 1.

e = Material of Case and Cover: None or /S.

f = Special Specification: None or /Q and/or -X.

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6DV-B-abcdef. Loop Powered Indicator.

Markings:

Class I Division 1, Groups B, C, D; T6 Ta = -40°C to +70°C; Type 4X

Class II, Division 1, Groups E, F, G, Class III, Division 1; T6 Ta = -40°C to +80°C; Type 4X

Description of Equipment:

Model Code

a = Safety Certification: 3.

b = Terminal Block: 0 or T.

c = Wiring Conduit: 1.

d = Mounting Bracket: 0 or 1.

e = Material of Case and Cover: None or /S.

f = Special Specification: None or -X.

B6U-B-abcdef. Two-Wire Universal Temperature Transmitter.

Markings:

Class I Division 1, Groups B, C, D; T6 Ta = -40°C to +70°C; Type 4X

Class II, Division 1, Groups E, F, G, Class III, Division 1; T6 Ta = -40°C to +80°C; Type 4X

Description of Equipment:

Model Code

a = Safety Certification: 3.

b = LCD Display: 0 or 1.

c = Wiring Conduit: 1.

d = Mounting Bracket: 0 or 1.

e = Material of Case and Cover: None or /S.

f = Customized Specification: None or -X.

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