

CML Hazardous Area Approvals Fisher™ FIELDVUE™ DLC3100 Digital Level Controller

Hazardous Area Classifications and Special Instructions for “Safe Use” and Installations in Hazardous Locations

Certain nameplates may carry more than one approval, and each approval may have unique installation/wiring requirements and/or conditions of “safe use”. These special instructions for “safe use” are in addition to, and may override, the standard installation procedures. Special instructions are listed by approval.

Note

This information supplements the nameplate markings affixed to the product and the DLC3100 quick start guide ([D104214X012](#)), available from your [Emerson sales office](#) or Fisher.com.

Always refer to the nameplate itself to identify the appropriate certification.

▲ WARNING

Failure to follow these conditions of “safe use” could result in personal injury or property damage from fire or explosion, or area re-classification.

1. Two 1/2-14 NPT entries available for conduit connection.
2. Cable gland must be Ex certified in accordance with the intended use of the apparatus (Ex db or Ex tb)
3. Blanking elements shall be used if an entry to this apparatus is not used. The blanking element must be Ex certified in accordance with the intended use of the apparatus (Ex db or Ex tb).
4. Thread adapters must be Ex certified in accordance with the intended use of the apparatus (Ex db or Ex tb).
5. A thread adapter cannot be used with an Ex db blanking element.
6. Only one thread adaptor can be used with an Ex db cable gland.
7. Manufacturer must be contacted for any repairs involving flameproof joints.
8. Coating instrument with paint or powder-coat finish is not permitted.
9. Lubribond 320 must be used as lubricant when needed to maintain the terminal box flameproof joint.
10. In Ex tb applications, the front cover shall not be removed to gain access to the field wiring connections or in-service adjusting facilities.
11. Temperature at wiring entry point may exceed 80°C, appropriate conductors and adaptors for this temperature must be used. See Specific Conditions of Use below.
12. External terminal ground cabling must be 4 mm² minimum for CML.

Specific Conditions Of Use

CML 19JPN2471X1

1. Equipment contains more than 15% Aluminium. It must be mounted in such a manner as to eliminate the risk of sparks caused by friction or impact.
2. Potential electrostatic charging hazard. Clean only with a damp cloth (see instructions).
3. When equipment is used in dust atmospheres, precautions shall be taken to prevent a dust layer forming on the enclosure.

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4. Repairs of flameproof joints shall not be undertaken by the user. In the event that a flameproof joint needs repair, contact the manufacturer.
5. The special fasteners shall only be replaced by identical fasteners. Contact the manufacturer for details.
6. At an upper ambient temperature of +75°C, the cable used shall have an operating temperature greater than +80°C.
7. Equipment contains more than 15% Aluminium. It must be mounted in such a manner as to eliminate the risk of sparks caused by friction or impact.
8. Potential electrostatic charging hazard. Clean only with a damp cloth (see instructions).
9. When the equipment is used in dust atmospheres, precautions shall be taken to prevent a dust layer forming on the enclosure.

Table 1. Approval Information, CML 19JPN2471X

Certificate	Approval	Standards Applied	Certification Obtained
CML 19JPN2471X	Intrinsic Safety	IEC 60079-0 Ed. 6 2011 IEC 60079-11 Ed. 6 2011 JNIO SH-TR-46-1:2015 JNIO SH-TR-46-6:2015	Ex ia IIC T5/T6 Ga Ex ia IIIC T100°C/T85°C Da

Table 2. Approval Information, CML 19JPN1472X

Certificate	Approval	Standards Applied	Certification Obtained
CML 19JPN1472X	Flameproof and Dust	IEC 60079-0 Ed. 6 2011 IEC 60079-1 Ed. 7 2014 IEC 60079-31 Ed. 2 2013 JNIO SH-TR-46-1:2015 JNIO SH-TR-46-2:2018 JNIO SH-TR-46-9:2018	Ex db IIC T5/T6 Gb Ex tb IIIC T78°C Db IP66

Figure 1. CML- Intrinsic Safe, Flameproof, and Dust Nameplate
English, Universal

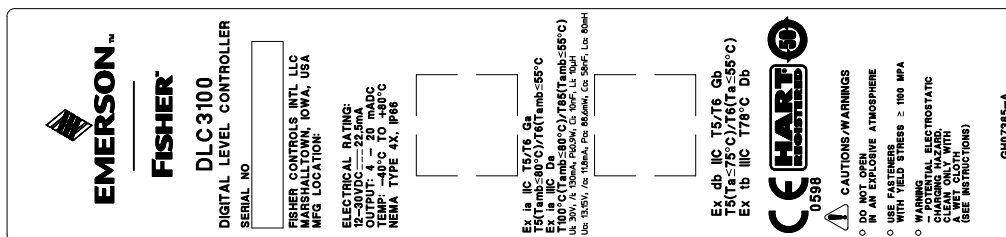
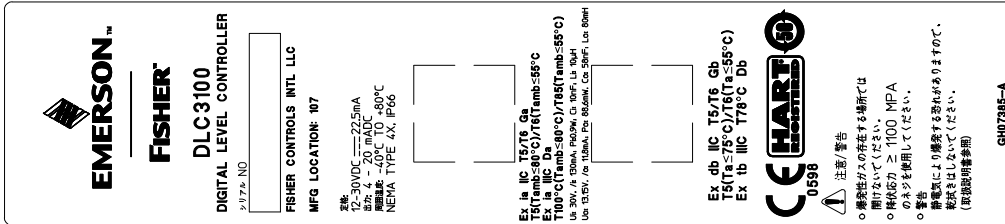


Figure 2. CML- Intrinsic Safe, Flameproof, and Dust Nameplate
Japanese, Universal



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