

INMETRO Hazardous Area Approvals for Fisher® FIELDVUE™ DLC3020f Digital Level Controller

This supplement provides INMETRO Hazardous Area Approval information for the DLC3020f digital level controller instruction manual and quick start guide. Use this in conjunction with information provided in the [DLC3020f instruction manual \(D103434X012\)](#) or [quick start guide \(D103470X012\)](#).

INMETRO—National Institute of Metrology, Quality and Technology. INMETRO approval is accepted in Brazil.

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. Refer to the [instruction manual](#) or [quick start guide](#) for all other information regarding DLC3020f digital valve controllers.

Note

This information supplements the nameplate markings affixed to the product.

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, and area re-classification.

Certificate Number: 11-IEEx-0051X

Standards Used for Certification

ABNT NBR IEC 60079-0:2013

ABNT NBR IEC 60079-1:2009

ABNT NBR IEC 60079-11:2013

ABNT NBR IEC 60079-15:2012

ABNT NBR IEC 60079-31:2011

Intrinsically Safe

Ex ia IIC T5 (Tamb ≤ 80°C), T6 (Tamb ≤ 73°C) Ga

Ex ia IIIC T87°C (Tamb ≤ 80°C), T80°C (Tamb ≤ 73°C) Da IP66

Ui ≤ 24 V, Ii ≤ 380 mA, Pi ≤ 1,4 W, Ci ≤ 5 nF, Li ≈ 0 mH

FISCO: Ui = 17,5, Ii = 380 mA, Pi = 5,32 W, Ci = 5 nF, Li ≈ 0 mH

-40°C ≤ Tamb ≤ +80°C



Flameproof

Ex d IIC T5 ($T_{amb} \leq +80^{\circ}\text{C}$) T6 ($T_{amb} \leq +73^{\circ}\text{C}$) Gb
Ex tb IIC T87°C ($T_{amb} \leq 80^{\circ}\text{C}$), T80°C ($T_{amb} \leq 73^{\circ}\text{C}$) Db IP66

$-35^{\circ}\text{C} \leq T_{amb} \leq +80^{\circ}\text{C}$

Type n

Ex nA IIC T5 ($T_{amb} \leq +80^{\circ}\text{C}$) T6 ($T_{amb} \leq +73^{\circ}\text{C}$) Gc

$-35^{\circ}\text{C} \leq T_{amb} \leq +80^{\circ}\text{C}$

Special Conditions of Safe Use

- For Intrinsically Safe applications: the apparatus must be only connected to equipment certified as intrinsically safe under the Brazilian System of Conformity Assessment (SBAC), and this combination must be compatible regarding intrinsic safety rules (see electrical parameters above).
- For Intrinsically Safe, Flameproof, and Type n applications: the connection cables should be suitable for a maximum temperature of 87°C.

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