

INMETRO Hazardous Area Approvals for Fisher™ 646 Electro-Pneumatic Transducer

This supplement provides INMETRO Hazardous Area Approval information for the 646 transducer electro-pneumatic transducer. Use this in conjunction with information provided in the 646 instruction manual ([D101351X012](#)).

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 for all other information regarding 646 transducers.

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: IEx 14.0240

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

Intrinsically Safe

Ex ia IIC T5/T4 Ga

Tamb = -40°C to: +40°C for T5 ; +71°C for T4

Nominal Characteristics:

30 Vmax, 4-20 mA

Ui = 30 V ; li = 150 mA ; Pi = 1 W ; Ci = 0 nF ; Li = 0 mH

Flameproof

Ex d IIC T6 Gb

Tamb = -40°C to: +71°C for T6

Nominal Characteristics: 30 Vmax, 4-20 mA

Type n

Ex nA IIC T6 Gc

Tamb = -40°C to +71°C

Nominal Characteristics: 30 Vmax, 4-20 mA

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