

INMETRO Hazardous Area Approvals Fisher™ i2P-100 Electro-Pneumatic Transducer

This supplement provides INMETRO Hazardous Area Approval information for the i2P-100 electro-pneumatic transducer instruction manual. Use this in conjunction with information provided in the instruction manual ([D103198X012](#)).

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 i2P-100 electro-pneumatic 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 10.0006X

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

Conditions of Safe Use (X):

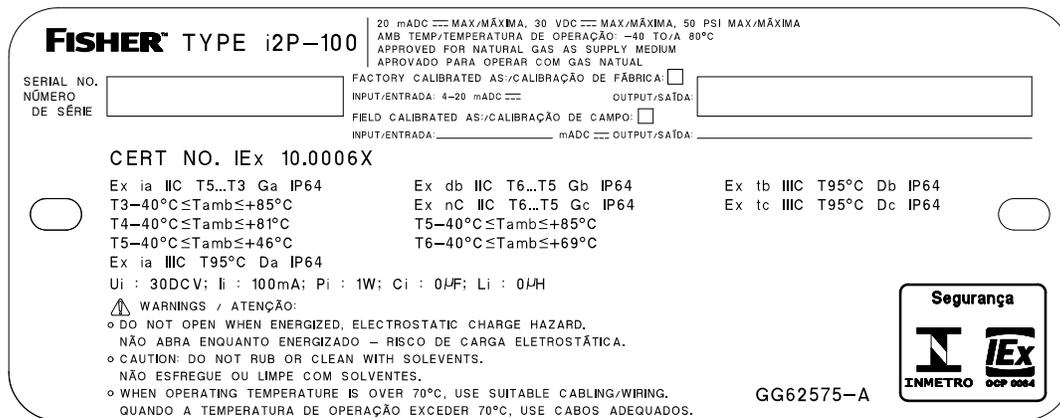
- For applications of intrinsically safe version in Zone 0 (EPL Ga), considering that the equipment enclosure is aluminum, precautions must be taken to prevent ignitions caused by impact or friction.
- The intrinsically safe equipment can only be connected to an intrinsically safe equipment associated with certificate for the intended use. This association must comply with the requirements of the standard ABNT NBR IEC 60079-25

Refer to table 1 for additional approval information and figure 1 for a typical INMETRO approval nameplate.

Table 1. Hazardous Area Classifications

| Certification Obtained | Entity Rating | Temperature Code | Enclosure Rating |
|---|--|--|------------------|
| Intrinsically Safe Gas Ex ia IIC T3/T4/T5 Ga Dust Ex ia IIIC T95°C Da | $U_i \leq 30$ VDC $I_i \leq 100$ mA $P_i \leq 1.0$ W $C_i = 0$ uF $L_i = 0$ uH | T3 (Tamb ≤ 85°C) T4 (Tamb ≤ 81°C) T5 (Tamb ≤ 46°C) | IP64 |
| Flameproof Gas Ex db IIC T5/T6 Gb Dust Ex tb IIIC T95°C Db | --- | T5 (Tamb ≤ 85°C) T6 (Tamb ≤ 75°C) | IP64 |
| Type n Gas Ex nC IIC T5/T6 Gc Dust Ex tc IIIC T95°C Dc | --- | T5 (Tamb ≤ 85°C) T6 (Tamb ≤ 75°C) | IP64 |

Figure 1. Typical INMETRO Approval Nameplate



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