D103633X012 May 2019

INMETRO Hazardous Area Approvals Fisher™ i2P-100 Electro-PneumaticTransducer

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 (<u>D103198X012</u>).

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.

A 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.





May 2019 D103633X012

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	Ui ≤ 30 VDC li ≤ 100 mA Pi ≤ 1.0 W Ci = 0 uF Li = 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

FISI SERIAL NO. NÚMERO DE SÉRIE	HER TYPE i2P—100 20 madc == Max/māxma, 30 vdc == Max/māxma, 50 mam temp/temperatura de operação 40 to/a 80 approved for natural gas as supely medium farovado para operar com gas natural parovado para operar com gas natural parovada parov	°¢
	CERT NO. IEx 10.0006X	
	Ex ia IIC T5T3 Ga IP64 T3-40°C≤Tamb≤+85°C T4-40°C≤Tamb≤+81°C T5-40°C≤Tamb≤+46°C Ex ia IIC T6T5 Gb IP64 T5-40°C≤Tamb≤+46°C T5-40°C≤Tamb≤+69°C T6-40°C≤Tamb≤+69°C	Ex tb IIIC T95°C Db IP64 Ex tc IIIC T95°C Dc IP64
	Ui : 30DCV; Ii : 100mA; Pi : 1W; Ci : 0µF; Li : 0µH MARNINGS / ATENÇÃO: DO NOT OPEN WHEN ENERGIZED, ELECTROSTATIC CHARGE HAZARD. NÃO ABRA ENQUANTO ENERGIZADO — RISCO DE CARGA ELETROSTÁTICA. CAUTION: DO NOT RUB OR CLEAN WITH SOLEVENTS.	Segurança
	NÃO ESFREGUE OU LIMPE COM SOLVENTES. • WHEN OPERATING TEMPERATURE IS OVER 70°C, USE SUITABLE CABLING/WIRING. • QUANDO A TEMPERATURA DE OPERAÇÃO EXCEDER 70°C, USE CABOS ADEQUADOS.	GG62575-A

Neither Emerson, Emerson Automation Solutions, nor any of their affiliated entities assumes responsibility for the selection, use or maintenance of any product. Responsibility for proper selection, use, and maintenance of any product remains solely with the purchaser and end user.

Fisher is a mark owned by one of the companies in the Emerson Automation Solutions business unit of Emerson Electric Co. Emerson Automation Solutions, Emerson, and the Emerson logo are trademarks and service marks of Emerson Electric Co. All other marks are the property of their respective owners.

The contents of this publication are presented for informational purposes only, and while every effort has been made to ensure their accuracy, they are not to be construed as warranties or guarantees, express or implied, regarding the products or services described herein or their use or applicability. All sales are governed by our terms and conditions, which are available upon request. We reserve the right to modify or improve the designs or specifications of such products at any time without notice.

Emerson Automation Solutions Marshalltown, Iowa 50158 USA Sorocaba, 18087 Brazil Cernay, 68700 France Dubai, United Arab Emirates Singapore 128461 Singapore

EMERSON.

www.Fisher.com