

INMETRO Hazardous Area Approvals

Fisher™ 4320 Wireless Position Monitor

This supplement provides INMETRO Hazardous Area Approval information for the 4320 Wireless Position Monitor instruction manual. Use this in conjunction with information provided in the 4320 Wireless Position Monitor instruction manual ([D103621X012](#)).

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. Special instructions are listed by approval. Refer to the instruction manual for all other information regarding the 4320 wireless position monitor.

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.

Certification Number

IEEx 13.0238X

Standards Used for Certification

ABNT NBR IEC 60079-0:2013

ABNT NBR IEC 60079-11:2013

Intrinsically Safe

Battery Sourced Power Module w/out Pneumatic Output

Ex ia IIC T3/T4/T5 Ga

Battery Sourced Power Module with Pneumatic Output

Ex ia IIC T4/T5/T6 Ga

External Power Option w/out Pneumatic Output

Ex ia IIC T5 Ga

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EMERSON™

External Power Option with Pneumatic Output

Ex ia IIC T5 Ga

Enclosure:

Type 4X, IP66W, IP67W

External Power Terminal J5:

 $U_i = 28\text{ V}$, $I_i = 100\text{ mA}$, $P_i = 1\text{ W}$, $C_i = 78\text{ nF}$, $L_i = 2.63\text{ mH}$

HART Communication Terminals WP1/WP2:

 $U_i = 6\text{ VDC}$, $I_i = 5\text{ mA}$, $P_i = 30\text{ mW}$, $C_i = 2.5\text{ nF}$, $L_i = 0\text{ mH}$ $U_o = 6\text{ VDC}$, $I_o = 14\text{ mA}$, $P_o = 84\text{ mW}$, $C_o = 39\text{ }\mu\text{F}$, $L_o = 150\text{ mH}$

Temperature classification:

Battery Sourced Power Module w/out Pneumatic Output

 $T_5 = -40^\circ\text{C} \leq T_{amb} \leq +40^\circ\text{C}$; $T_4 = -40^\circ\text{C} \leq T_{amb} \leq +75^\circ\text{C}$; $T_3 = -40^\circ\text{C} \leq T_{amb} \leq +85^\circ\text{C}$

Battery Sourced Power Module with Pneumatic Output

 $T_6 = -20^\circ\text{C} \leq T_{amb} \leq +31^\circ\text{C}$; $T_5 = -20^\circ\text{C} \leq T_{amb} \leq +46^\circ\text{C}$; $T_4 = -20^\circ\text{C} \leq T_{amb} \leq +50^\circ\text{C}$

External Power Option w/out Pneumatic Output

 $T_5 = -40^\circ\text{C} \leq T_{amb} \leq +80^\circ\text{C}$

External Power Option with Pneumatic Output

 $T_5 = -20^\circ\text{C} \leq T_{amb} \leq +50^\circ\text{C}$ **Special Conditions of Use**

Equipment with a Battery Sourced Power Module:

- The HART (WP1-WP2) connections can only be connected to intrinsically safe certified equipment and in accordance with the instructions of the manufacturer. This combination must be compatible regarding intrinsic safety rules.
- The equipment should not be subjected to mechanical impacts or friction.
- Products that are operated by battery can only use power module GE57654X012 or GE57655X012.
- The piezo valve shall be used for control of non-flammable medium only.

Equipment with External Power:

- The apparatus may be powered externally via external power module GE61615X012.



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