

FIELD MOUNTED EXPLOSION PROOF PRESSURE TRANSMITTER

8080PA

- EXPLOSION PROOF CERTIFIED
- 4 : 1 RANGEABILITY
- PRESSURE RANGE OF 0.025 BAR (10" H2O) TO 700 BAR (10,000 PSIG)
- OUTPUT 4~20MA, 2 WIRES
- CHOICE OF ALUMINUM OR SS316 ENCLOSURE
- REMOTE MOUNT SENSOR FROM ENCLOSURE
- 3 YEAR WARRANTY



Introduction

IME Model 8080PA is a field mounted, 2 wire transmitter with a 4 digit LED display and a 4 : 1 adjustability. The 8080PA is designed to cover a wide range of level and pressure measurement and can be adjusted as low as 0.025 Bar (10" H2O) and up to a maximum of 700 Bar (10,000 PSIG).

Description

IME Model 8080PA Transmitter is designed for use in process industries where vibration, inclement weather and corrosive atmospheres prevail. The only material that is exposed to the process liquid is SS316. The Electronics are enclosed in a Copper-Free, Epoxy Coated aluminum housing. For more aggressive environments, a SS316 housing is optionally available. The housings meet the requirements of NEMA 4X / IP68, and are also certified Explosion Proof by FM/CSA/ATEX/IECEx. The output current is linearised and can be set to 4-20mA/ 20-4mA or any range within these limit. The unit updates 3 times per second for display and 4 times per second for the output. The sensor can be remotely mounted up to 10 meters(30 feet) from the Enclosure.

Mounting

A wide choice of stainless steel mounting brackets are available for mounting the Model 8080PA on either a 2" pipe or wall.

Certification System

	I M2	or	II 2G D
	Ex d I Mb	or	Ex D IIC T6 Gb
	Ex tb IIIC T85 °C Db IP68		
	Ta = -40 °C to +60 °C		

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Functional Specifications

Process Fluid

Liquid, Gas and Vapor

Indication Accuracy

± 0.25% Full Scale, includes effects of non-linearity, hysteresis and repeatability

Stability

± 0.2% Full Scale Output for 12 months
0.1% of calibrated range +/- 1 digit over 6 months

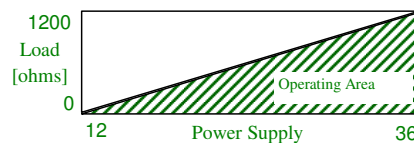
Temperature Effect

± 0.02% Full Scale Output per 20°C

Power Supply

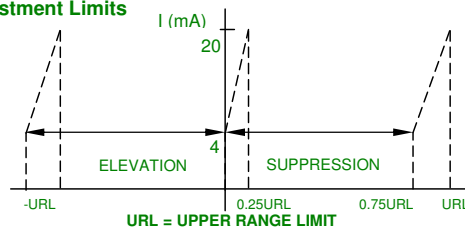
Loop Powered (12~36V DC)

Load Limitation



According to: $R_{max} (\Omega) = (V_{supply} - 12) / 0.02$

Zero Adjustment Limits



Calibrated Span shall not be less than 0.25URL and shall not exceed URL
Low Range Value shall not be below -URL
Upper Range Value shall not be greater than URL

Temperature Limits

Process: -50 °C to +125 °C
Ambient: -50 °C to +75 °C

Weight

0.9Kg (2LBS) for Aluminum Unit and 1.4Kg (3LBS) for SS316 unit

Material of Construction

Enclosure epoxy coated Copper-Free Aluminum or SS316 as specified

O Rings

Buna N

Optional Accessories

Mounting Brackets (IME Model 175PM, 175RC, 175NR, 175MM)

FIELD MOUNTED EXPLOSION PROOF TEMPERATURE TRANSMITTER

8080PN

Both the Aluminum and the SS316 housing are certified NEMA4X & IP68. As indicated below. IME model 8080PN can be optionally provided with certification and a stainless steel name plate for use in Hazardous Area applications.

Ordering Information

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Note:

1 Ports with M16 x 2P thread are not through holes, they are for Mounting only.

