FIELD MOUNTED LOOP POWERED INDICATOR

- 4 TO 20 mA INPUT, LOOP POWERED
- 4 DIGIT LED DISPLAY IN ENGINEERING UNITS
- CHOICE OF COPPER-FREE ALUMINUM OR SS316 ENCLOSURE
- EXPLOSION PROOF CERTIFIED
- 3 YEAR WARRANTY



Introduction

IME Model 8080MK Loop Powered Digital Indicators allow the process variable from any 4~20 mA current source to be monitored. Since the unit derives its power from the loop, no additional power supply or wiring is needed. Because of its low voltage drop (5 Volts at 20mA), it can be incorporated into almost any 2 wire loop, where local indication of a process variable is needed, because the integral transmitter indicator is inaccessible to view or is at a different location.

Description

IME Model 8080MK Indicators are designed for use in process industries where vibration, inclement weather and corrosive atmospheres prevail. The electronics are enclosed in a copper-free epoxy coated Aluminum housing and 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 ATEX/IECEx.

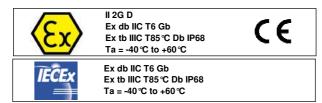
LED Meter

The Model 8080MK has 4 digit display and can be configured to read from \cdot 999 to 9999 with a 4~20 mA input signal. The decimal point location and engineering units can be adjusted using membrane switches, eliminating all potentiometric adjustments.

Mounting

The Model 8080MK can be wall mounted or mounted on a 2" pipe. For mounting the unit on a wall or 2" pipe, a wide choice of stainless steel mounting brackets are also available.

Certification System



Functional Specifications

Indication Accuracy
0.1% of calibrated range ±1 digit
Calibration
Via membrane switches on the front panel
Display Height
8mm (0.3") high
Stability Over Time
0.1% of calibrated range ±1 digit over 6 months
Over Range Indication
Indication of "Err" on display
Response Time
Typically 20 ms
Failure Mode
Failure will not affect the loop integrity
Voltage Drop
5V at 20mA
Operating Temperature
-40 ℃ to +60 ℃
Weight
0.9Kg (2 lbs) for Aluminum Unit and 1.4Kg (3 lbs) for SS316 Unit
Material of Construction of Enclosure
Epoxy coated Copper-Free Aluminum or SS316 as specified
O Rings
Buna N (Nitrile)
Optional Accessories
Mounting Brackets (Model 175PM, 175RC, 175NR, 175MM)

8080MK

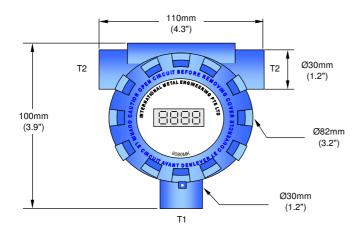
ORDERING INFORMATION FOR 8080MK

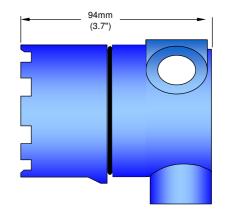
Model	Descriptio	Description						
8080MK	-	ield Mounted LED Loop Powered Indicator						
	Code	Options, Housing						
	Α	Die cast Aluminum, Epoxy Coated						
	Т	SS316, Electro Polished						
		Code	Instrument Connection (T1)				Conduit Size (T2)	
		01	M16 x 2P	(See note 1)			3⁄4" NPT	
		02				1/2" NPT		
		03	M16 x 2P (M20 x 1.5P		
		04	1⁄2" NPT				3⁄4" NPT	
		05	1⁄2" NPT				1⁄2" NPT	
		06	6 ½" NPT				M20 x 1.5P	
		07 3⁄4" NPT			:	3⁄4" NPT		
	08		3⁄4" NPT	3⁄4" NPT			1⁄2" NPT	
		09	3⁄4" NPT	3⁄4" NPT			M20 x 1.5P	
		10	1⁄2" BSP	1/2" BSP			3⁄4" NPT	
		11	1/2" BSP				1⁄2" NPT	
		12	1/2" BSP				M20 x 1.5P	
		13	3⁄4" NPT			None		
		14	M20 x 1.5P			None		
		16	1⁄2" BSP				None	
		17	1⁄2" NPT	/2" NPT			None	
		1	Code Certification					
			NN	None				
		E1 ATEX / IECEx Explosi		on Proof Certified, IP68, T6				
			1	Code	Accessor	ies		
				RC	Model 175	5RC N	Nounting Bracket (See note 1)	
				PM	Model 175	5PM N	Nounting Bracket (See note 1)	
				NR	Model 175	NR N	Nounting Bracket	
				MM	Model 175	5MM I	Mounting Bracket	
				1	Code		2 Inch "U" Bolt with Nuts and Washers	
					00		None	
					01		Model 17508, 1 Set (For Model 175RC)	
					02		Model 17508, 2 Sets (For Model 175PM & 175NR)	
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8080MK	Α	02	E1	PM	02	-	Typical Model Num	

Note:

1 Ports with M16 x 2P thread are not through holes, they are for use with Model 175RC and 175PM Mounting Brackets only.

2 BSP threads are not approved by FM, CSA, ATEX & IECEx.

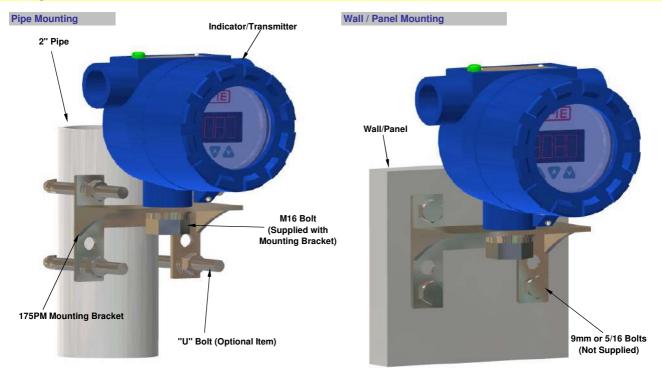




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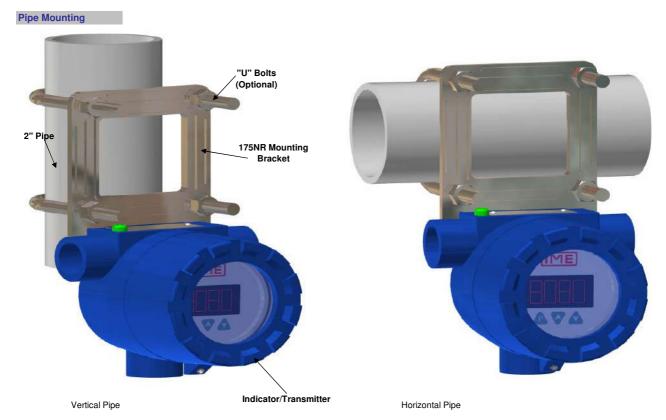
MOUNTING BRACKETS FOR INDICATORS AND TRANSMITTERS

Mounting Methods For Model 175PM



MOUNTING BRACKETS FOR INDICATORS AND TRANSMITTERS

Mounting Methods For Model 175NR



Mounting Methods For Model 175MM

Vall/Panel Mounting

Indicator/Transmitter

Mounting Bracket

Introduction

This simple hollow square mounting bracket constructed out of

SS316 Stainless Steel, can be used to mount a variety of field

devices, either on a wall or panel or a 2" Pipe.

When mounting on a 2" pipe, a "U" Bolt is required, which can be supplied optionally.

IME Model 17508 consists of a complete assembly of a 2" U bolt along with the nuts and washers required.

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Mounting Bracket

Introduction

This simple "L" Shape mounting bracket constructed out of SS316

Stainless Steel, can be used to mount a variety of field devices,

either on a wall or panel or on a 2" pipe.

When mounting on a 2" pipe, a "U" Bolt is required, which can be supplied optionally.

IME Model 17508 consists of a complete assembly of a 2" U bolt along with the nuts and washers required.

Mounting Bracket

Introduction

IME MODEL 175NR is Stainless Steel Mounting Brackets made exclusively for IME MODEL 8080 Instrument Enclosure to mount on a 2 " Pipe.

This Bracket is available for customers who require all 3 ports on the enclosure for other purposes.

The 175NR is symetrical, so it can be rotated 90° to suit the viewing position of the Indicator/Transmitter.

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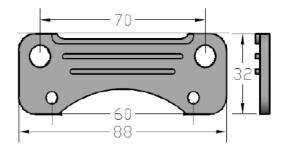
175MM

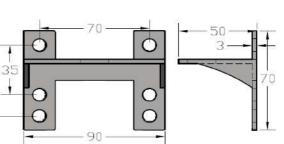
Introduction

Mounting Bracket

IME MODEL 175MM is Stainless Steel Mounting Brackets made exclusively for IME MODEL 8080 Instrument Enclosure to mount on wall.

This low cost Bracket is available for customers who require all 3 ports on the enclosure for other purposes.





175NR

175PM

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