FIELD MOUNTED PROCESS INDICATOR WITH DUAL RELAYS

8080RR

- 4 TO 20 mA INPUT
- 4 DIGIT LED DISPLAY IN ENGINEERING UNITS
- CHOICE OF COPPER-FREE ALUMINUM OR SS316 ENCLOSURE
- TWO INDEPENDENT USER ASSIGNABLE ALARMS
- EXPLOSION PROOF CERTIFIED
- OUTPUT 4 TO 20 Ma (Retransmission)
- 3 YEAR WARRANTY



IME Model 8080RR Digital Indicator allows the process variable from any transmitter to be monitored in engineering units and two corresponding alarms to be assigned. Both alarms can be assigned either high or low within the selected range. In addition to that the unit also provides 4 to 20 mA output.

Description

IME Model 8080RR 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 FM/CSA/ATEX/IECEx.

LED Meter

The Model 8080RR has 4 digit display and can be configured to read from -999 to 9999 with a 4~20 mA input signal. The decimal point location, engineering units, alarm settings, etc can be adjusted using membrane key on the front panel.

Mounting

The Model 8080RR 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



CLASS I, DIV I GROUPS B, C AND D CLASS II/III, DIV I GROUPS E, F AND G NEMA 4X, T6



CLASS I, DIV I GROUPS B, C AND D CLASS II/III, DIV I GROUPS E, F AND G NEMA 4X, T6



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





Ex d IIC T6 Gb Ex tb IIIC T85 °C Db IP68 Ta = -40 °C to +60 °C



Functional Specifications

Indication Accuracy

0.1% of calibrated range ±1 digit

Set Point Adjustment

10~100% of full scale, user selectable

Automatically when the input falls below the alarm set point by approximately ±0.5% of full scale.

Alarm Set Point Accuracy

±0.5% of full scale.

Alarm Status Indication

LED on front panel

Display Height

10mm (0.4") high

Alarm Output

2 sets SPDT, 1 form C, rated 10A @ 250V AC, 50/60Hz

Stability Over Time

0.1% of calibrated range ±1 digit over 6 months

Over Range Indication

Flashing of display **Response Time**

Typically 75ms

Supply Voltage

18~28V DC

Operating Temperature

-40°C to +60°C

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

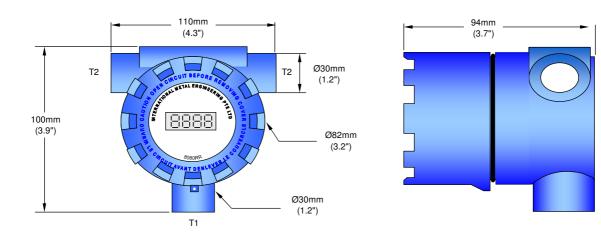
Mounting Brackets (Model 175PM, 175RC, 175NR, 175MM)

ORDERING INFORMATION FOR 8080RR

Model	Descriptio	Description					
8080RR		ounted Process Indicator With Dual Relays					
	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	
			M16 x 2P (See note 1) M16 x 2P (See note 1) ½" NPT ½" NPT ½" NPT ½" NPT ¾" NPT			½" NPT	
		03				M20 x 1.5P	
						3/4" NPT	
						½" NPT	
						M20 x 1.5P	
		07				3/4" NPT	
		80	3/4" NPT			½" NPT	
		09	3/4" NPT 1/2" BSP			M20 x 1.5P	
		10				34" NPT	
		11	½" BSP			½" NPT	
		12	1/2" BSP 3/4" NPT M20 x 1.5P			M20 x 1.5P	
		13				None	
		14				None	
		16	½" BSP			None	
		17	½" NPT			None	
		1	Code Certification		on		
			NN	None			
			E1			CEx Explosion Proof Certified, NEMA 4X, IP68, T6	
				Code	Accessor		
				RC		5RC Mounting Bracket (See note 1)	
				PM		5PM Mounting Bracket (See note 1)	
				NR		5NR Mounting Bracket	
				MM		5MM 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)	
*	*	*	*				
8080RR	Α	01	E1	RC	02	Typical Model Number	
Note:	Α	UI	EI	HU	02	i ypicai Modei Numbe	

Note:

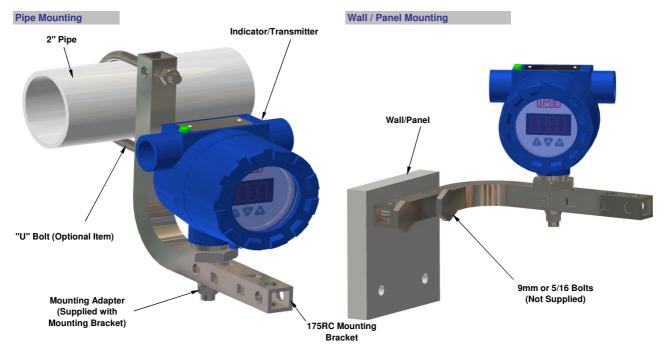
¹ Ports with M16 x 2P thread are not through holes, they are for use with Model 175RC and 175PM Mounting Brackets only.



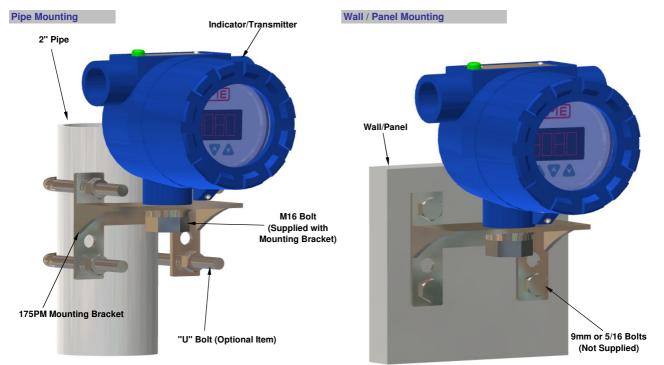
INTERNATIONAL METAL ENGINEERING

MOUNTING BRACKETS FOR INDICATORS AND TRANSMITTERS

Mounting Methods For Model 175RC



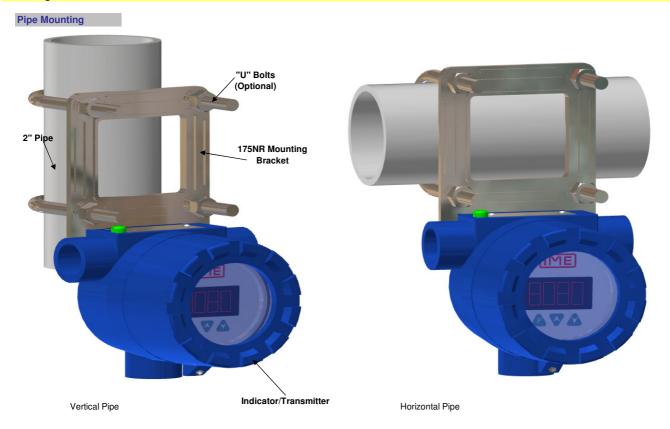
Mounting Methods For Model 175PM



INTERNATIONAL METAL ENGINEERING

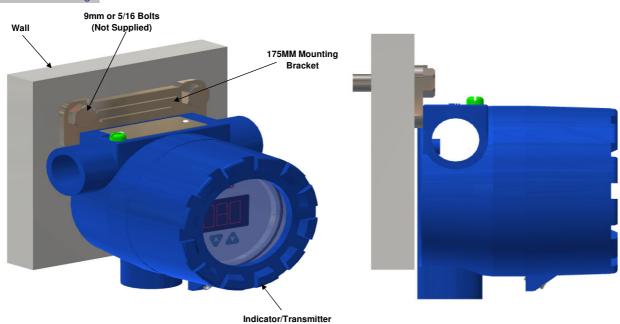
MOUNTING BRACKETS FOR INDICATORS AND TRANSMITTERS

Mounting Methods For Model 175NR



Mounting Methods For Model 175MM

Wall/Panel Mounting



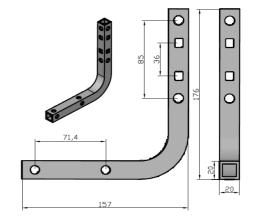
Mounting Bracket 175RC

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.



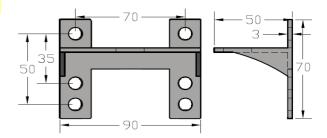
Mounting Bracket 175PM

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.



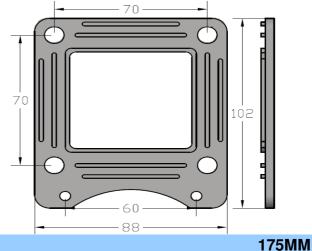
Mounting Bracket 175NR

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 $^{\circ}$ to suit the viewing position of the Indicator/Transmitter.



Mounting Bracket

Introduction

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.

