# **TEMPERATURE INDICATOR WITH DUAL RELAYS**

8080PR1

- 4 20 mA OUTPUT
- 4 DIGIT LED DISPLAY IN DEGREE C OR F
- **RUGGED NEMA 4X ENCLOSURE**
- CHOICE OF ALUMINUM OR SS316 ENCLOSURE
- EXPLOSION PROOF CERTIFIED
- 3 YEARS WARRANTY



#### Introduction

IME Model 8080PR1 allows 2 independent alarms to be assigned over the temperature range of the sensor. The unit will accept an input from a Pt100 RTD Sensor and provide an indication on a bright 4 digit LED. The unit serves a dual purpose since in addition to local indication of temperature, which is switch selectable to read Deg F or Deg C, it also serves as an accurate and repeatable temperature switch.

#### Description

IME Model 8080PR1 Temperature Indicator 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. For more aggressive environments, a SS316 housing is also available. The housings meet the requirements of NEMA 4X, and are also certified Explosion Proof by CSA, ATEX & IECEx.

#### I FD Meter

Model 8080PR1 has a 4 digit LED display. Choice of °C or °F, alarm settings etc can be adjusted via the membrane switches located in the front panel.

### Mounting

A wide choice of stainless steel mounting brackets are available for mounting the Model 8080PR1 on either a 2" pipe or wall.

#### **Certification System**



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



ATEX II 2 G D Ex d IIC T6 Gb Ex tb IIIC 85°C Db IP68 Ta = -40°C to +60°C



Ex d IIC T6 Gb Ex tb IIIC 85°C Db IP68 Ta = -40°C to +60°C

### **Functional Specifications**

Indication Accuracy

0.1% of Calibrated range +/- 1 digit

Alarm Status Indication

LED on front panel Display Height

10.0 mm (0.4") high

Input

RTD Pt100

**Contact Rating** 

230 VAC, 5A, Resistive; 24VDC, 5A, Resistive

**Output Signal** 

4- 20 mA

Supply Voltage

12 ~ 28 VDC

**Operating Temperature** 

-40 - 60 °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)

# **TEMPERATURE INDICATOR WITH DUAL RELAYS**

8080PR1

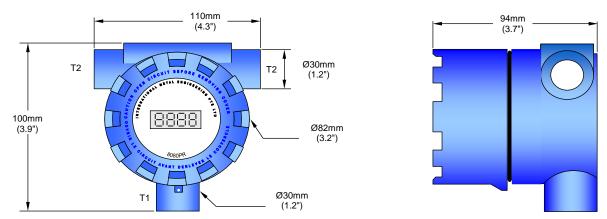
Both the Aluminum and the SS316 housing are certified NEMA 4X. As indicated below. IME model 8080PR1 can be optionally provided with certification and a stainless steel name plate for use in Hazardous Area applications.

**Ordering Information** 

Model	Description						
8080PR1	Field Mounted Temperature Indicator with Dual Relays and 4- 20 mA Output						
	Code	Code Options, Housing					
	Α						
	A Die cast Aluminum, Epoxy Coated T SS316, Electro Polished						
		Code	Instrument (	Connection		Conduit Size (T2)	
		01	M16 x 2P (Se	ee note 1)		34" NPT	
		02	M16 x 2P (Se	ee note 1)		½" NPT	
		03	M16 x 2P (Se	ee note 1)		M20 x 1.5P (See note 2)	
		04	½" NPT			3/4" NPT	
		05	½" NPT			½" NPT	
		06	½" NPT			M20 x 1.5P (See note 2)	
		07	¾" NPT			3/4" NPT	
		08	3/4" NPT			½" NPT	
		09	34" NPT			M20 x 1.5P (See note 2)	
	10		1/2" BSP (See note 2)			¾" NPT	
		11	1/2" BSP (See note 2)			½" NPT	
	12 13		½" BSP (See note 2)			M20 x 1.5P (See note 2)	
			34" NPT			None	
			M20 x 1.5P (See note 2)			None	
				P (See note 2)		None	
		17 ½" NPT			None		
			Code	Certification			
			NN	None			
			E1			n Proof Certified, NEMA 4X, IP68	
				Code	Accessories		
				RC		RC Mounting Bracket	
				PM		PM Mounting Bracket	
				NR		NR Mounting Bracket	
				MM		MM Mounting Bracket	
					Code	2 Inch "U" Bolt with Nuts and Washers	
					00	None	
					01	IME Model 17508, 1 Set (For IME Model 175RC)	
					02	IME Model 17508, 2 Sets (For IME Model 175PM & 175NR)	
			1				
		V		V			

### Note:

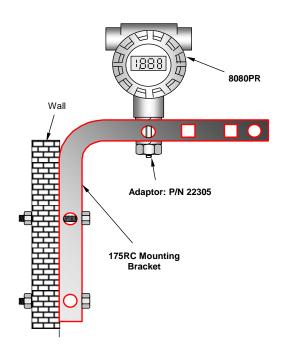
- 1 Ports with M16 x 2P thread are not through holes, they are for Mounting only.
- 2 1/2"BSP & M20 x 1.5P Threads are not Certified by CSA



# **MODEL 175RC MOUNTING BRACKET**

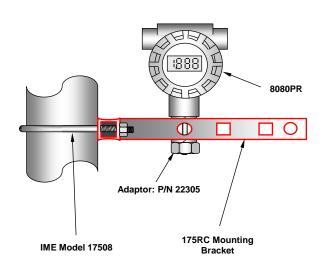
### IME MODEL 175RC

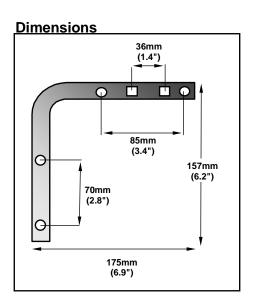
PANEL / WALL MOUNTING CONFIGURATION 9 mm or 5/16 bolts for mounting bracket to wall or panel (Not Supplied) Adaptor P/N: 22305 (Optional)





2" PIPE MOUNTING CONFIGURATION 2 Inch "U" Bolt with Nuts and Wahsers (Optional) Adaptor P/N: 22305 (Optional)

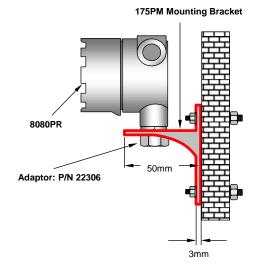




# **MODEL 175PM MOUNTING BRACKET**

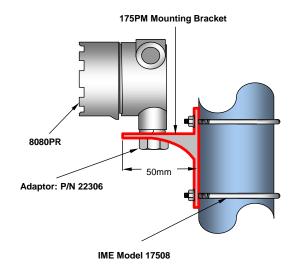
### IME MODEL 175PM

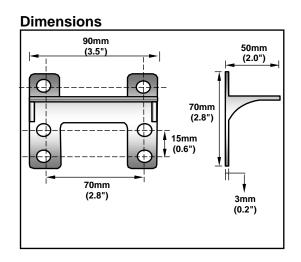
PANEL / WALL MOUNTING CONFIGURATION 9 mm or 5/16 bolts for mounting bracket to wall or panel (Not Supplied)
Adaptor P/N: 22306 (Optional)





2" PIPE MOUNTING CONFIGURATION 2 Inch "U" Bolt with Nuts and Wahsers (Optional) Adaptor P/N: 22306 (Optional)



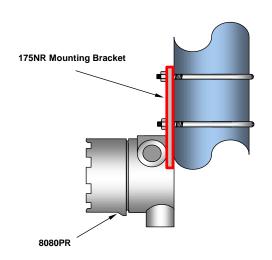


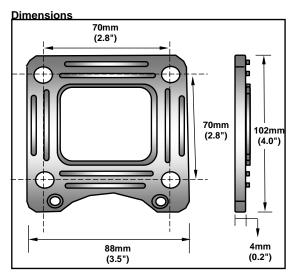
# **MODEL 175NR AND 175MM MOUNTING BRACKET**

### IME MODEL 175NR

#### 2" PIPE MOUNTING CONFIGURATION

2 Inch "U" Bolt with Nuts and Washers





### IME MODEL 175MM

## PANEL / WALL MOUNTING CONFIGURATION

9 mm or 5/16 bolts for mounting bracket to wall or panel (Not Supplied)

