INTERNATIONAL METAL ENGINEERING

MODEL 9080 DUAL COMPARTMENT INSTRUMENT ENCLOSURE

● **EXPLOSION PROOF CERTIFIED**

● **NEMA 4X OR IP66/68 CONSTRUCTION**

● **CHOICE OF SS316 AND COPPER-FREE ALUMINUM**

● **CHOICE OF TEMPERED GLASS COVER OR BLIND COVER**

● **WIDE SELECTION OF CONDUIT SIZES**

● **OPTION FOR A CUSTOMIZED SS NAMEPLATES**

Introduction

Material of Construction:

SS316 and Copper-Free Aluminum

Certification:

FM (C + US), ATEX & IECEx

Connections

Instrument Connection (T1) :
½" NPT, ¾" NPT, 1" NPT, M20x1.5P, M25x 1.5P

Conduit Size (T2) :
½" NPT, ¾" NPT, M20x1.5P, M25x 1.5P

Mounting Holes

As per requirement

Surface Finishing

Electro Polish For Stainless Steel
Epoxy Painted For Aluminum

"O" Ring

Buna "N"

Weight

2.00Kg (4.4lbs) for SS316
1.30Kg (2.9lbs) for Aluminum

Accessories

Customized SS Nameplate and
Mounting brackets

Certification System

⬡ Ex	II 2 G D Ex d IIC Gb Ex tb Db IIIC IP68 Ta = -40℃ to +85℃
IECEx	Ex d II C Gb Ex tb Db IIIC IP68 Ta = -40℃ to +85℃
◇ FM C US APPROVED	CLASS I, DIV I GROUPS B, C AND D CLASS II/III, DIV I GROUPS E, F AND G NEMA 4X, T6

DIMENSIONS FOR WINDOW VERSION

110mm (4.33")

T1, T2

DIMENSIONS FOR BLIND VERSION
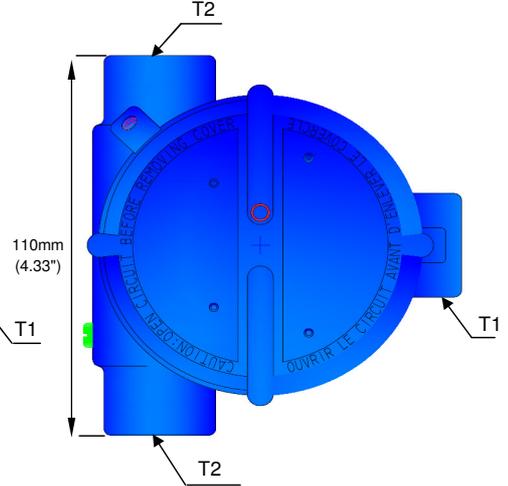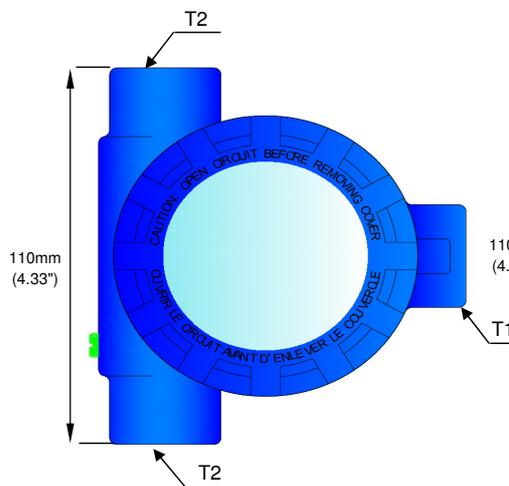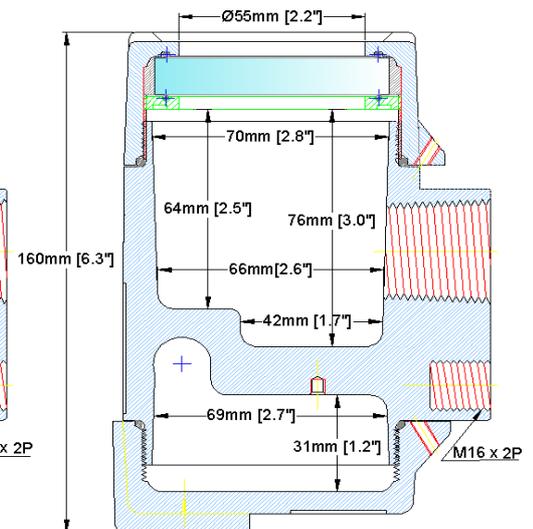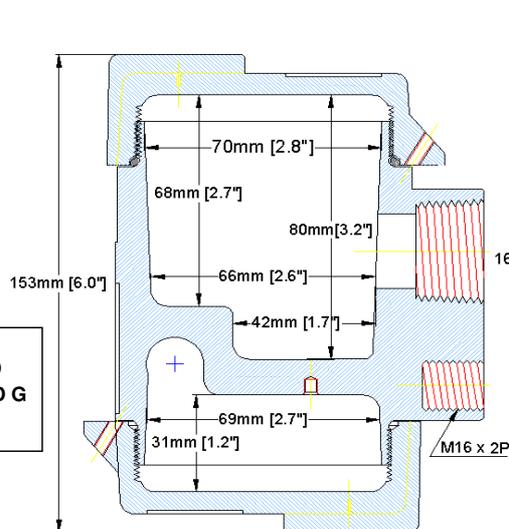
110mm (4.33")

T1, T2

CROSS SECTIONAL VIEW

70mm [2.8"]
68mm [2.7"]
80mm[3.2"]
66mm [2.6"]
42mm [1.7"]
153mm [6.0"]
69mm [2.7"]
31mm [1.2"]
M16 x 2P

CROSS SECTIONAL VIEW

Ø55mm [2.2"]
70mm [2.8"]
64mm [2.5"]
76mm [3.0"]
66mm[2.6"]
42mm [1.7"]
160mm [6.3"]
69mm [2.7"]
31mm [1.2"]
M16 x 2P

Terminals
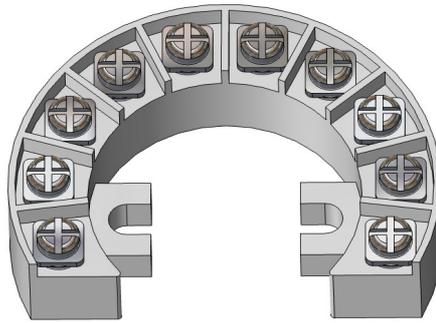
4 terminals   Upto 10 Terminals

The Model 9080 comes with upto 10 terminals build into the terminal end. Also upto a maximum of 10 feed through wires are provided for connection to the sensor electronics

Mounting

The Model 175 RC

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.
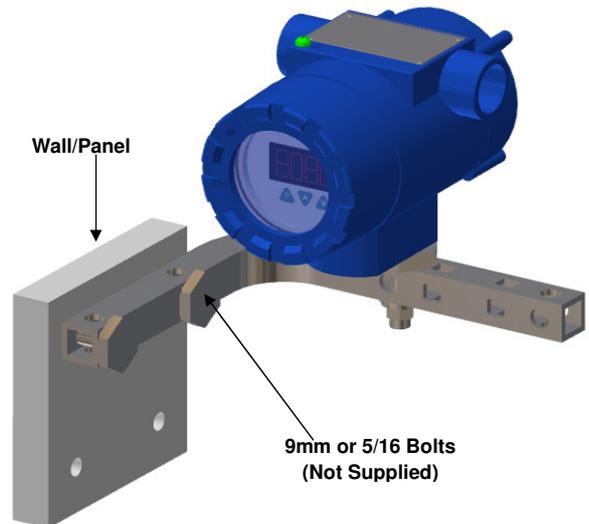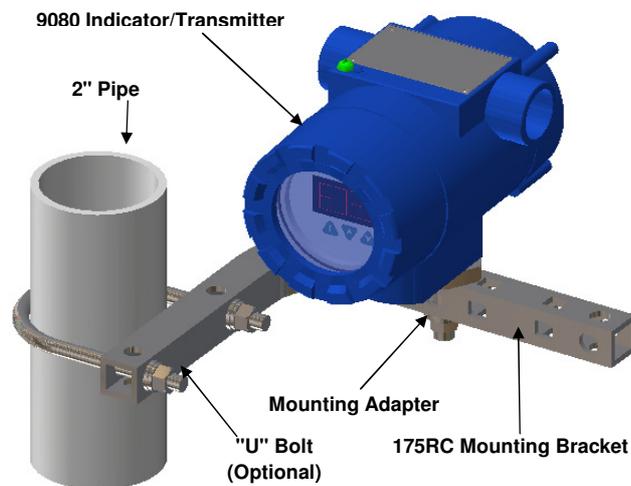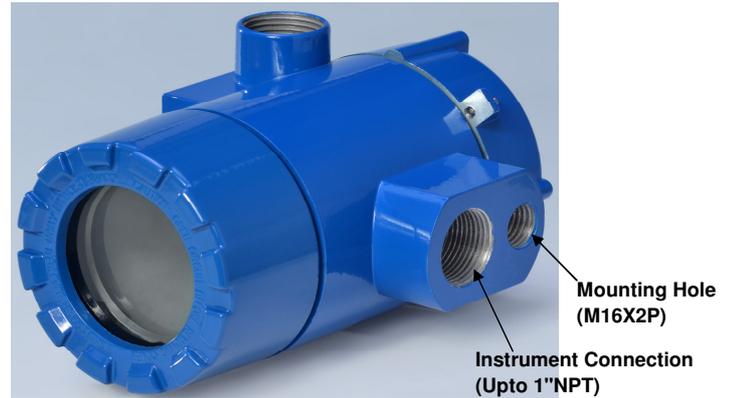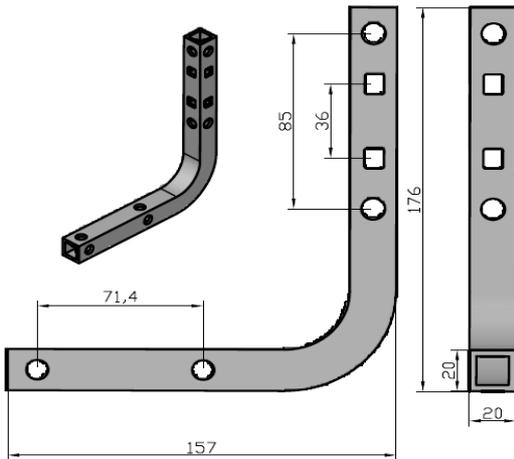
85
36
176
71,4
20
20
157

Mounting Hole (M16X2P)

Instrument Connection (Upto 1"NPT)

9080 Indicator/Transmitter

2" Pipe

Mounting Adapter

175RC Mounting Bracket

"U" Bolt (Optional)

Wall/Panel

9mm or 5/16 Bolts (Not Supplied)

The Model 175 TR

IME MODEL 175TR is Stainless Steel low cost Mounting Brackets made exclusively for IME MODEL 9080 Instrument Enclosure to mount on a 2 '' Pipe. The 175TR is symetrical, so it can be rotated 90° to suit the viewing position of the Indicator/Transmitter.
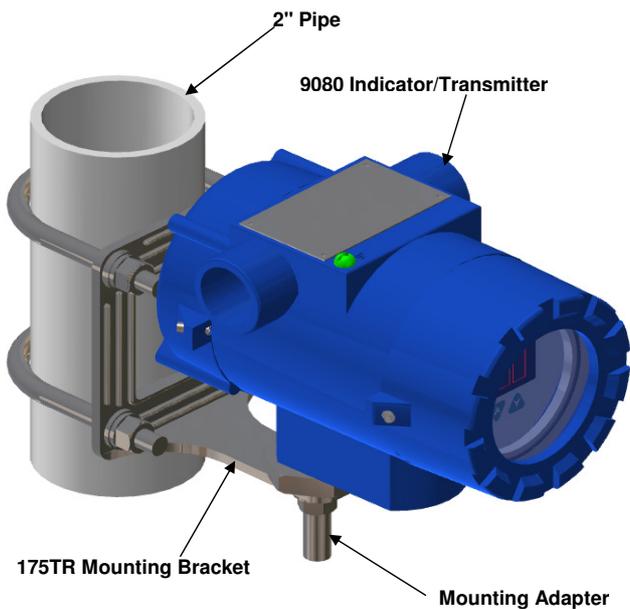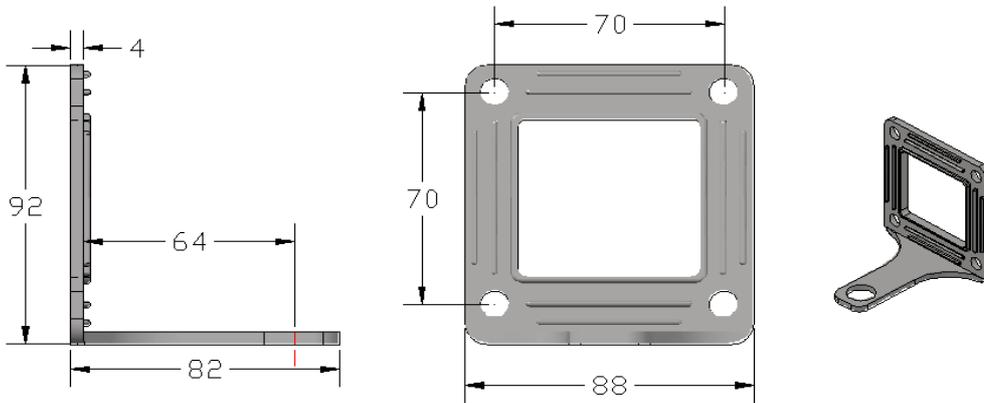
Vertical pipe positioning
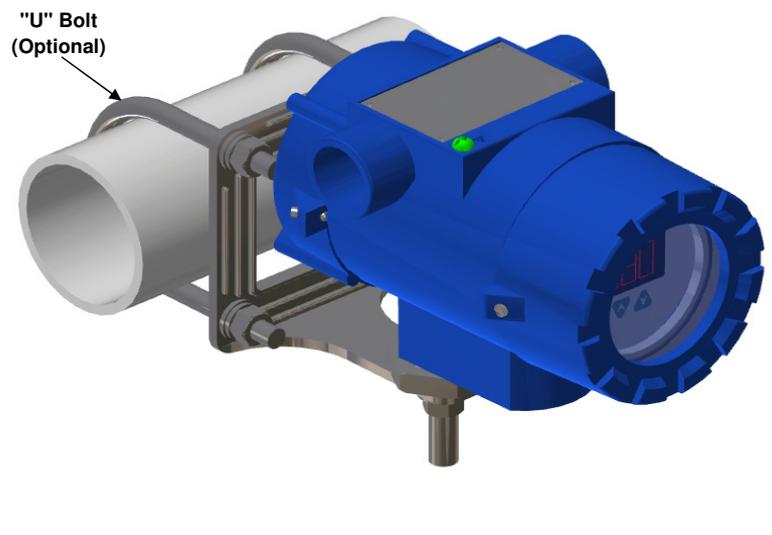
Horizontal pipe positioning

INTERNATIONAL METAL ENGINEERING

MODEL 9080 DUAL COMPARTMENT INSTRUMENT ENCLOSURE

IME Model 9080 Series Dual Compartment Instrument Enclosures are designed to accommodate circuit boards and devices having a maximum diameter of 68mm(2.6"). Specifically designed for explosion proof applications, the housing is available in either an epoxy painted Copper-Free Aluminum version or investment casted SS316 to withstand applications where aggressive atmospheres prevail. The housing can be ordered with either a tempered glass cover or blind cover. There is a wide choice of conduit, instrument entries, terminal blocks and mounting brackets.

Ordering Information

Model	Description
9080AN	General Purpose, Copper Free Aluminum, Dual Compartment Enclosure With Blind Cover
9080AE	FM (C + US) Explosion Proof Certified, Copper Free Aluminum, Dual Compartment Enclosure With Blind Cover
9080AT	ATEX/IECEx Explosion Proof Certified,Copper Free Aluminum, Dual Compartment Enclosure With Blind Cover
9080AM	FM (C + US)/ATEX/IECEx Explosion Proof Certified, Copper Free Aluminum, Dual Compartment Enclosure With Blind Cover
9080WN	General Purpose, Copper Free Aluminum, Dual Compartment Enclosure With Tempered Glass Window
9080WE	FM (C + US) Explosion Proof Certified, Copper Free Aluminum, Dual Compartment Enclosure With Tempered Glass Window
9080WT	ATEX/IECEx Explosion Proof Certified, Copper Free Aluminum, Dual Compartment Enclosure With Tempered Glass Window
9080WM	FM (C + US) /ATEX/IECEx Explosion Proof Certified, Copper Free Aluminum, Dual Compartment Enclosure With Tempered Glass Window
9080TN	General Purpose, SS316, Dual Compartment Enclosure With Blind Cover
9080TE	FM (C + US) Explosion Proof Certified, SS316, Dual Compartment Enclosure With Blind Cover
9080TT	ATEX/IECEx Explosion Proof Certified, SS316, Dual Compartment Instrument Enclosure With Blind Cover
9080TM	FM (C + US) /ATEX/IECEx Explosion Proof Certified, SS316, Dual Compartment Enclosure With Blind Cover
9080SN	General Purpose, SS316, Dual Compartment Enclosure With Tempered Glass Window
9080SE	FM (C + US) Explosion Proof Certified, SS316, Dual Compartment Enclosure With Tempered Glass Window
9080ST	ATEX/IECEx Explosion Proof Certified, SS316, Dual Compartment Enclosure With Tempered Glass Window
9080SM	FM (C + US) /ATEX/IECEx Explosion Proof Certified, SS316, Dual Compartment Enclosure With Tempered Glass Window

Code	Instrument Connection, T1	Conduit Size, T2
04	½"NPT	¾"NPT
05	½"NPT	½"NPT
06	½"NPT	M20 x 1.5P
07	¾"NPT	¾"NPT
08	¾"NPT	½"NPT
09	¾"NPT	M20 x 1.5P
10	½"BSP	¾"NPT
11	½"BSP	½"NPT
12	½"BSP	M20 x 1.5P
19	None	¾"NPT
20	None	½"NPT
21	None	M20 x 1.5P
22	M20 x 1.5P	M20 x 1.5P
23	½"BSP	½"BSP
25	M25 x 1.5P	½" NPT
26	M25 x 1.5P	¾" NPT
27	M25 x 1.5P	M20 x 1.5P
28	M25 x 1.5P	M25 x 1.5P
31	½"NPT	M25 x 1.5P
32	¾"NPT	M25 x 1.5P
33	½" BSP	M25 x 1.5P
34	M20 x 1.5P	M25 x 1.5P
35	1" NPT	M25 x 1.5P
36	NONE	M25 x 1.5P
37	1" NPT	½" NPT
38	1" NPT	¾" NPT
39	1" NPT	M20 x 1.5P
40	1" NPT	M25 x 1.5P
42	1" NPT	None

Code	Terminal Block Type
00	None
04	Terminal Block With 4 Terminals
10	Terminal Block With 10 Terminals

Code	Number of Wires
00 - 10	Upto Maximum of 10 Wires

Code	Mounting Bracket
TR	175TR Mounting Bracket
RC	175RC Mounting Bracket

9080WT	08	10	09	RC	←	Typical Model Number

Note:

1.FM Certification pending.