INTERNATIONAL METAL ENGINEERING

MODEL 8100 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 CUSTOMIZE SS NAMEPLATES**

Introduction

Material of Construction:

SS316 and Copper-Free Aluminum
Certification:

FM, CSA, ATEX & IECEx
Connections

½" NPT, ¾" NPT, M20x1.5P
Mounting Holes

As per requirement
Surface Finishing
Electro Polish For Stainless Steel
Epoxy Painted For Aluminum
"O" Ring

Buna "N"
Weight
2.90Kg (6.4lbs) for SS316
2.20Kg (4.9lbs) for Aluminum
Accessories

Customized SS Nameplate

Certification System

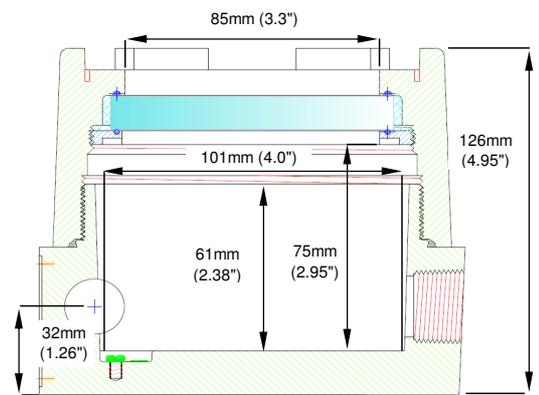|	
FM APPROVED	**Class I, Div 1, Groups B, C and D;** **Class II, Div 1, Groups E, F and G;** **Class III, NEMA 4X, IP66;**
CSA®	**Class I, Div 1, Groups B, C and D;** **Class II, Div 1, Groups E, F and G;** **Class III, Div 1;** **Type 4X Ex d IIB+H2;**
Ex	**II 2 G D** **Ex d IIC Gb** **Ex tb Db IIIC IP68** **Ta = -40℃ to +85℃**
IECEx	**Ex d II C Gb** **Ex tb Db IIIC IP68** **Ta = -40℃ to +85℃**

Dimensions For Stainless Steel   Dimensions For Aluminum
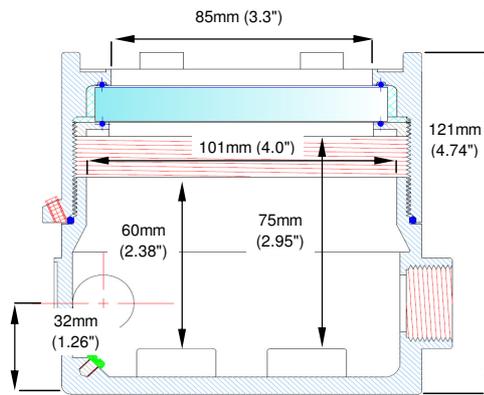
85mm (3.3")
121mm (4.74")
101mm (4.0")
60mm (2.38")
75mm (2.95")
32mm (1.26")

85mm (3.3")
126mm (4.95")
101mm (4.0")
61mm (2.38")
75mm (2.95")
32mm (1.26")

CROSS SECTION WITH GLASS COVER

105mm (4.13")
101mm (4.0")
61mm (2.38")
75mm (2.95")
32mm (1.26")

110mm (4.35")
101mm (4.0")
61mm (2.38")
75mm (2.95")
32mm (1.26")
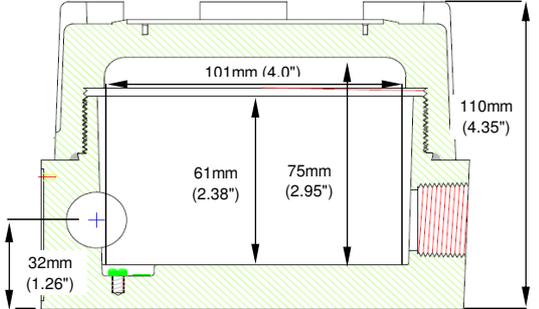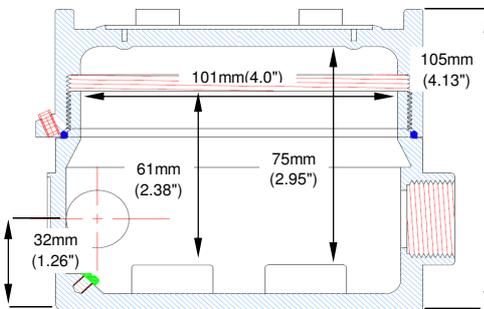
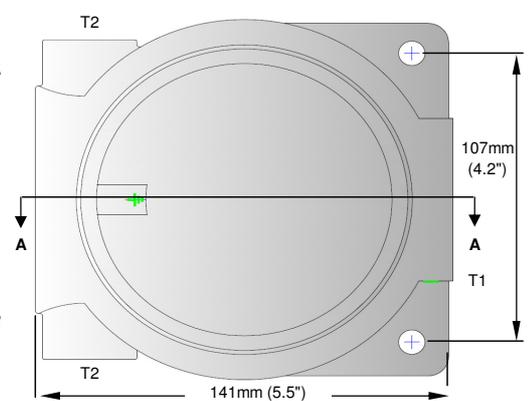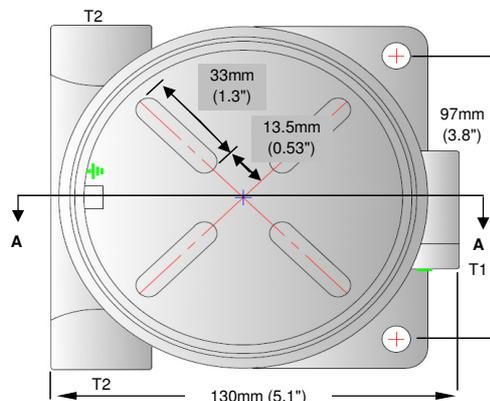### CROSS SECTION WITH BLIND COVER

M4 OR 6/32 MOUNTING HOLES TO BE DRILLED ANYWHERE ON FOUR RAISED MOUNTING LUGS

M4 OR 6/32 MOUNTING HOLES TO BE DRILLED ANYWHERE ON BASE

T2
33mm (1.3")
13.5mm (0.53")
97mm (3.8")
A
A
T1
T2
130mm (5.1")

T2
107mm (4.2")
A
A
T1
T2
141mm (5.5")

MOUNTING HOLES VIEW

INTERNATIONAL METAL ENGINEERING

MODEL 8100 INSTRUMENT ENCLOSURE

IME Model 8100 Series Instrument Enclosures are designed to accommodate circuit boards and devices having a maximum diameter of 101mm(4.0") 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 and instrument entries.

Ordering Information

Model	Description
8100AN	General Purpose, Die Cast Aluminum, 3 Ports Instrument Enclosure With Blind Cover
8100AE	FM/CSA Explosion Proof Certified, NEMA 4X, Die Cast Aluminum, 3 Ports Instrument Enclosure With Blind Cover
8100AT	ATEX/IECEx Explosion Proof Certified, IP68, Die Cast Aluminum, 3 Ports Instrument Enclosure With Blind Cover
8100AM	FM/CSA/ATEX/IECEx Explosion Proof Certified, NEMA 4X, IP68, Die Cast Aluminum, 3 Ports Instrument Enclosure With Blind Cover
8100WN	General Purpose, Die Cast Aluminum, 3 Ports Instrument Enclosure With Tempered Glass Window
8100WE	FM/CSA Explosion Proof Certified, NEMA 4X, Die Cast Aluminum, 3 Ports Instrument Enclosure With Tempered Glass Window
8100WT	ATEX/IECEx Explosion Proof Certified, IP68, Die Cast Aluminum, 3 Ports Instrument Enclosure With Tempered Glass Window
8100WM	FM/CSA/ATEX/IECEx Explosion Proof Certified, NEMA 4X, IP68, Die Cast Aluminum, 3 Ports Instrument Enclosure With Tempered Glass Window
8100TN	General Purpose, SS316 Housing, 3 Ports Instrument Enclosure With Blind Cover
8100TE	CSA Explosion Proof Certified, NEMA 4X, SS316 Housing, 3 Ports Instrument Enclosure With Blind Cover
8100TT	ATEX/IECEx Explosion Proof Certified, IP68, SS316 Housing, 3 Ports Instrument Enclosure With Blind Cover
8100SN	General Purpose, SS316 Housing, 3 Ports Instrument Enclosure With Tempered Glass Window
8100SE	CSA Explosion Proof Certified, NEMA 4X, SS316 Housing, 3 Ports Instrument Enclosure With Tempered Glass Window
8100ST	ATEX/IECEx Explosion Proof Certified, IP68, SS316 Housing, 3 Ports Instrument Enclosure With Tempered Glass Window

Code	T1		T2	
04	½"NPT		¾"NPT	
05	½"NPT		½"NPT	
06	½"NPT		M20 x 1.5P	(See Note 1)
07	¾"NPT		¾"NPT	
08	¾"NPT		½"NPT	
09	¾"NPT		M20 x 1.5P	(See Note 1)
10	½"BSP	(See Note 2)	¾"NPT	
11	½"BSP	(See Note 2)	½"NPT	
12	½"BSP	(See Note 2)	M20 x 1.5P	(See Note 1)
13	¾"NPT		None	
14	M20 x 1.5P	(See Note 1)	None	
16	½"BSP	(See Note 2)	None	
17	½"NPT		None	
18	None		None	
19	None		¾"NPT	
20	None		½"NPT	
21	None		M20 x 1.5P	(See Note 1)

8100SE	08	◄ Typical Model Number

Note:

1. A temporary metric label is required when an M20 x 1.5P thread is selected. However this thread option is not allowed in Canada.

2. ½"BSP thread is not FM Approved.