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

1/2" NPT, 3/4" NPT, M20x1.5P

Mounting Holes

As per requirement

Surface Finishing

Electro Polish For Stainless Steel Epoxy Painted For Aluminum

'O" Ring

Nitrile

Weight

2.90Kg (6.4lbs) for SS316

2.20Kg (4.9lbs) for Aluminum

Accessories

Customized SS Nameplate

Certification System



Class I, Div 1, Groups B, C and D: Class II, Div 1, Groups E, F and G:

Class III, NEMA 4X, IP66;



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;



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

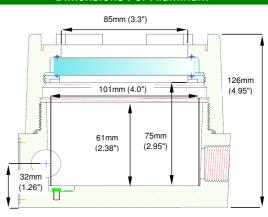


Ex db II C Gb Ex tb Db IIIC IP68 Ta = -40 °C to +85 °C

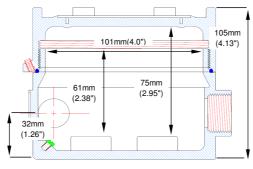
Dimensions For Stainless Steel

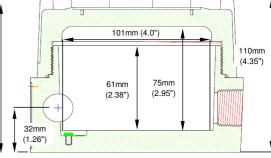
85mm (3.3") 121mm 101mm (4.0") (4.74") 75mm 60mm (2.95")(2.38")32mm (1.26")

Dimensions For Aluminum



CROSS SECTION WITH GLASS COVER



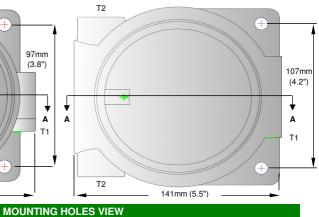


CROSS SECTION WITH BLIND COVER

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

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

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



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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	,, ,, ,, ,, ,,				
	Glass Window				
8100TN	General Purpose, SS316, 3 Ports Instrument Enclosure With Blind Cover				
8100TE	FM/CSA Explosion Proof Certified, NEMA 4X, SS316, 3 Ports Instrument Enclosure With Blind Cover				
8100TT	ATEX/IECEx Explosion Proof Certified, IP68, SS316, 3 Ports Instrument Enclosure With Blind Cover				
8100TM	FM/CSA/ATEX/IECEx Explosion Proof Certified, NEMA 4X, IP68, SS316, 3 Ports Instrument Enclosure With Blind Cover				
8100SN	General Purpose, SS316, 3 Ports Instrument Enclosure With Tempered Glass Window				
8100SE	FM/CSA Explosion Proof Certified, NEMA 4X, SS316, 3 Ports Instrument Enclosure With Tempered Glass Window				
8100ST	ATEX/IECEx Explosion Proof Certified, IP68, SS316, 3 Ports Instrument Enclosure With Tempered Glass Window				
8100SM	FM/CSA/ATEX/IECEx Explosion Proof Certified, NEMA 4X, IP68, SS316, 3 Ports Instrument Enclosure With Tempered Glass Window				
	Code	T1		T2	
	04	½"NPT		3/4"NPT	
	05	½"NPT		½"NPT	
	06	½"NPT		M20 x 1.5P	(See Note 1)
	07	3/4"NPT		¾"NPT	
	80	3/4"NPT		½"NPT	
	09	3/4"NPT		M20 x 1.5P	(See Note 1)
	13	3/4"NPT		None	
	14	M20 x 1.5P	(See Note 1)	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.