INTERNATIONAL METAL ENGINEERING

MODEL 1080 ALUMINUM EXPLOSION PROOF THERMOCOUPLE HEAD

- **EXPLOSION PROOF CERTIFIED**
- NEMA 4X AND IP66/68 CONSTRUCTION
- WIDE SELECTION OF CONDUIT SIZES
- OPTION FOR A CUSTOMIZED SS NAMEPLATE
- WIDE RANGE OF ACCESSORIES



Introduction

Material of Construction:

Copper-Free Die-cast Aluminum

Certification:

FM/CSA/ATEX/IECEx Explosion Proof Certified, NEMA 4X and IP66/68 Connections

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

Mounting Holes

See attached drawing

Surface Finishing

Epoxy Coated

"O" Ring

Buna "N" Weight

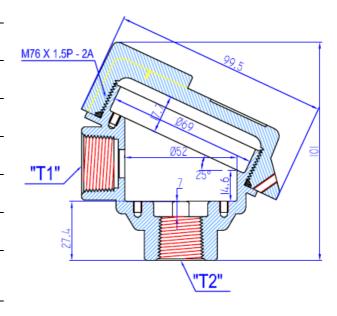
0.5 KG (1.1 lbs)

Accessories

SS Ball Chain, Terminal Block(Ceramic/Bakelite, Optional) Custom Designed SS Nameplate

Dimensions

Assembly Drawing



M4 X 0.7 Mounting Hole Positions

Certification System



CLASS I, DIV I GROUPS B, C AND D CLASS II, DIV I GROUPS E, F AND G NEMA 4X, IP66



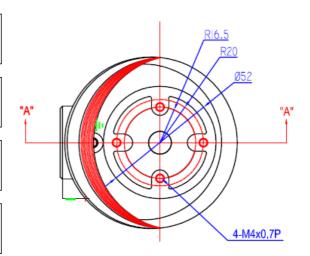
CLASS I, DIV I GROUPS B, C AND D CLASS II, DIV I GROUPS E, F AND G NEMA 4X



ATEX II 2GD Ex d IIC Gb Ta = -40 °C to 85 °C Ex tb IIIC Db IP68



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



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MODEL 1080 ALUMINUM EXPLOSION PROOF THERMOCOUPLE HEAD

IME Model 1080 Series Aluminum Thermocouple Heads are designed specifically for explosion proof applications and constructed out of Die-Cast Copper-Free Aluminum to withstand applications where aggressive atmospheres prevail.

This housing accommodates a terminal block or head mounted transmitter 50mm (2.0") in diameter that can be mounted using M4 screws as indicated in the attached drawing. Some units as indicated has a provision for a customer designed SS nameplate with information such as model number, company name, logo, and website etc.

Ordering Information for Explosion Proof Heads

Model	Description						
1080AE	FM/CSA Ex-	FM/CSA Ex-Proof Certified, NEMA 4, IP66, Aluminum Thermocouple Head, Grey Painted					
1080AA	FM/CSA Ex-	FM/CSA Ex-Proof Certified, NEMA 4, IP66, Aluminum Thermocouple Head with Provision for Name Plate, Grey Painted					
1080AT	ATEX / IECE	ATEX / IECEx Ex-Proof Certified, IP68, Aluminum Thermocouple Head with Provision for Name Plate, Grey Painted					
1080AM		FM / CSA / ATEX / IECEx Ex-Proof Certified, NEMA 4, IP66/68, Aluminum Thermocouple Head with Provision for Name Plate. Grey Painted					
1080WE		FM/CSA Ex-Proof Certified, NEMA 4X, IP66, Aluminum Thermocouple Head with Provision for Name Plate Blue Epoxy Painted					
1080WT	ATEX / IECEx Ex-Proof Certified, IP68, Aluminum Thermocouple Head with Provision for Name Plate, Blue Epoxy Painted						
1080WM	FM / CSA / ATEX / IECEx Ex-Proof Certified, NEMA 4X, IP66/68, Aluminum Thermocouple Head with Provision for Name Plate, Blue Epoxy Painted						
	Code	Conduit Size (T1)	Instrument Connection (T2)				
	01	T1=3/4" NPT	T2=1/2"NPT				
	02	T1=1/2" NPT	T2=½"NPT				
	05	T1=M20X1.5 (See Note 2)	T2=1/2"BSP (See Note 1)				
	08	T1=M20X1.5 (See Note 2)	T2=½"NPT				
	33	T1=3/4" NPT	T2=¾" NPT				
	XX	Specify	Specify				

1080WM -	01	Typical Model Number

Note:

- 1 BSP Thread is not Certified by FM & CSA
- 2 M20X1.5 is not Certified By CSA

Ordering Information for General Purpose Heads

Model	Description					
1080AN	Aluminum TI	sluminum Thermocouple Head with Provision for Name Plate, Grey Painted				
1080WN	Aluminum TI	Aluminum Thermocouple Head with Provision for Name Plate, Blue Epoxy Painted				
1080WG	Aluminum Thermocouple Head with Tempered Glass Window, Blue Epoxy Painted					
	Code	Conduit Size (T1)	Instrument Connection (T2)			
	01	T1=3/4" NPT	T2=½"NPT			
	02	T1=½" NPT	T2=½"NPT			
	05	T1=M20X1.5	T2=½"BSP			
	08	T1=M20X1.5	T2=½"NPT			
	33	T1=3/4" NPT	T2=¾" NPT			
	XX	Specify	Specify			

1080 A N -	01	Typical Model Number
I IUSUAN -		Typical Model Numberl