

CMCP570(A) Solid State Temperature Transmitter/Monitor



Transmitter Features:

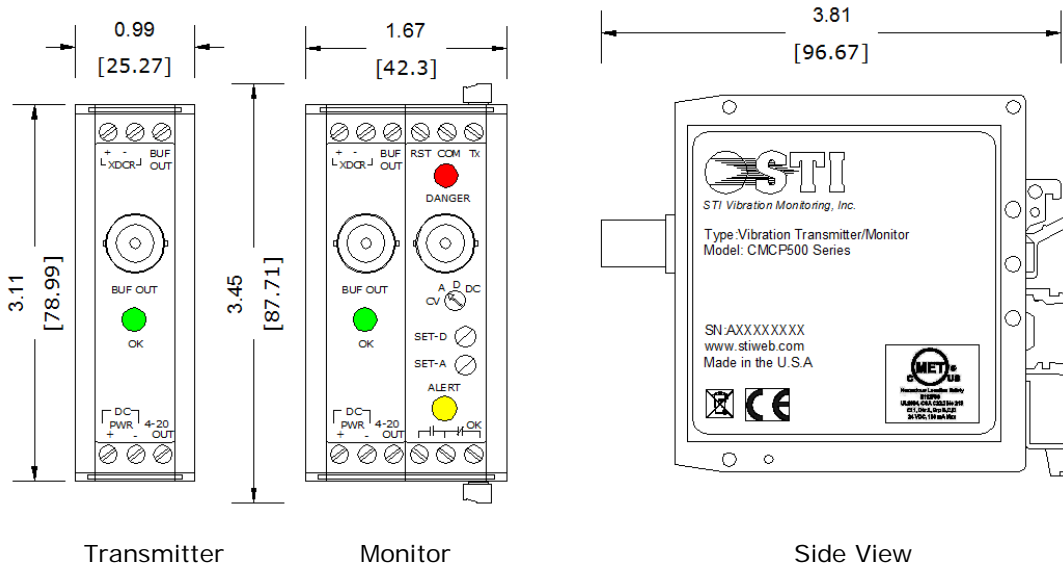
- Temperature Output
- "T" Type Accelerometer Input
- Output in °C or °F
- 4-20mA Output
- Two Buffered Outputs
- Class 1 Division 2, Groups B-D
- CE Approved

Monitor Features:

- OK, Alert and Danger Alarms
- 5A @250VAC Relay Outputs
- Latching or Non-Latching Alarms
- Trip Multiply (2x or 3x)
- Selectable Time Delay
- API 670 Compliant

The **CMCP570 Solid State Temperature Transmitter** and **CMCP570A Solid State Temperature Monitor** are compatible with industry standard dual output or "T" type Accelerometers that have an internal temperature sensor. The temperature signal is processed into a 4-20 mA output that is proportional to the overall range. The 4-20mA signal can then be sent to the Plant PLC/DCS or other control system. An OK Fault Detection Circuit is provided along with a Timed OK Danger Defeat Circuit to prevent false alarms. The CMCP570 can be optionally ordered as the CMCP570A Monitor and be equipped with the optional alarm module that provides OK, Alert and Danger Alarms, along with relays, adjustable time delays and adjustable set points for standalone machine protection.

Dimensions:



CMCP570(A) Solid State Temperature Transmitter/Monitor

Specifications:

Electrical Specifications:	CMCP570
Input:	Dual Output Accelerometers with Internal Temperature Sensor
Output:	4-20 mA (600 Ohms max. resistive load)
Frequency Response @ -3db	DC
Power:	+24 VDC 50 mA max. Transmitter (100 mA max. Monitor) Reverse Polarity and Transient Protected
Accuracy:	1% Full Scale
Range:	10 mv/°K Type: 0 to 250°F (-17 to 121°C) 10 mv/°C Type: 35.6 to 248°F (2 to 120°C)
Signal Detection:	DC
Sensor Power:	4.4 mA Constant Current Diode depending on Type
OK Circuit:	Green LED (On = OK), Not OK = Off and 4-20 mA < 2.0 mA
Timed OK Danger Defeat:	30 Seconds on Power Up or Loss of OK (Alert and Danger)
Buffered Outputs:	Active Buffer, BNC and Terminal
Case:	Isolated
Terminals:	Screw Type, 24 AWG min., 12 AWG max.
Environmental Specifications:	
Operating Temperature:	-20°C to +80°C (-4°F to +176°F).
Storage Temperature:	-40°C to +95°C (-40°F to +203°F)
Relative Humidity:	0 - 95% Non-Condensing
Mechanical Specifications:	
Mounting:	32 mm (G style) or 35 mm (T style) DIN Rail.
Dimensions:	0.99"W x 3.11"H x 3.81"D (25.27 x 78.99 x 96.67 mm) Transmitter 1.67"W x 3.11"H x 3.81"D (42.3 x 78.99 x 96.67 mm) Monitor
Weight:	0.21 lb./0.40 lb. w/Alarm Module (0.095kg/0.18kg)
Certifications:	CE, RoHS, CSA & UL Approved Class I Division II B-D

Optional Alarm Module (Monitor):	CMCP570A
Number of Alarms/Relays	3 - OK, Alert and Danger
Alarm Indication:	OK = Green LED, Alert = Yellow LED, Danger = Red LED
Relay Specification:	3 - Form C, SPDT, 5 Amp 30 VDC/250 VAC, Latching or Non-Latching
Alarm Time Delay:	Separately Selectable 0.1, 1.0, 3.0 6.0 10.0 Seconds
Trip Multiply Function:	Terminal for None, 2X or 3X Alarm Limit Trip Multiply
Reset Function:	Terminal for Remote Reset if Latching Alarms Selected
Bypass Function:	Hold Reset to Common
Display Output:	0-5 VDC Switch Selectable Current Value, Alert and Danger Setpoint

Ordering Information:

CMCP570	-XX	Solid State Temperature Transmitter
CMCP570A	-XX	Solid State Temperature Monitor
	-01	10 mv/°K Type: 0 to 250°F (-17 to 121°C)
	-02	10 mv/°C Type: 35.6 to 248°F (2 to 120°C) (Standard)
	-Specify	Specify Input (Mod Charge Applies)



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