

## CMCP565(A) Isolated Thermocouple Transmitter/Monitor



### Transmitter Features:

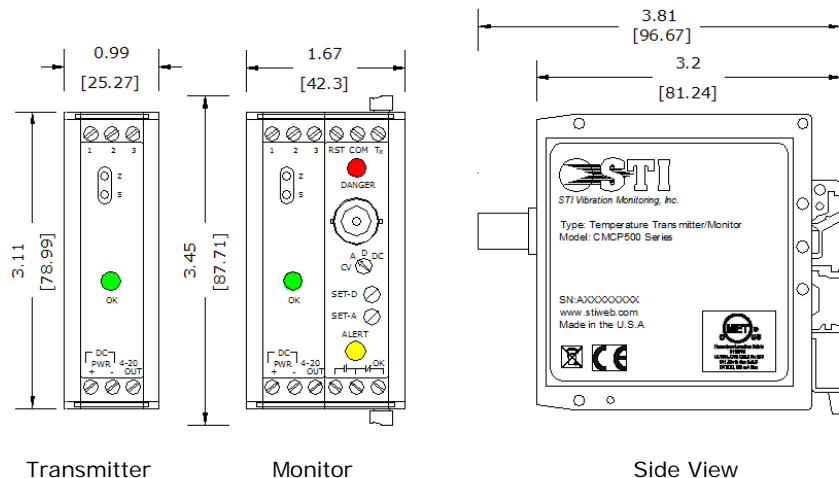
- Temperature Output
- Thermocouple Input
- 4-20mA Output
- Two Buffered Outputs
- Class 1 Division 2, Groups B-D
- CE Approved

### 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 **CMCP565 Isolated Thermocouple Transmitter** and **CMCP565A Isolated Thermocouple Monitor** are compatible with all Type J and Type K Thermocouples. The temperature signal is processed into a 4-20mA DC output proportional to the specified range in terms of Degrees F or C which can then be sent to the plant's PLC, DCS, SCADA or other control system to allow operations and maintenance staff to view real time machinery health, set alarms and trigger machine shutdowns for scheduled preventative maintenance. An OK Fault Detection Circuit is provided with the 4-20mA output so hardware or power failures can be differentiated by the control system to prevent nuisance alarms and false readings. The CMCP565 can be ordered with the optional alarm module by using the CMCP565A prefix. The optional alarm module provides OK, Alert and Danger alarms along with associated relays, selectable time delays and adjustable set points for standalone API 670 compliant machine protection. A Timed OK Danger Defeat circuit is also provided to prevent unwanted false trips. Multiple transmitters and/or monitors can be combined into a single enclosure or cabinet to create a cost effective, multichannel machine protection system with solid state reliability.

### Dimensions:



**Smart  
Condition**

**Distribuidor Autorizado**  
contacto@smartcondition.mx  
www.smartcondition.mx  
Cel. (493) 106 9062  
Cel. (493) 114 1974

# CMCP565(A) Isolated Thermocouple Transmitter/Monitor

## Specifications:

Electrical Specifications:	CMCP565
Input:	Type J and K Thermocouple Temperature Sensors
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:	0 to 250°F (-17.78 to 121.1°C) Standard Other Ranges Available Upon Request
Signal Detection:	DC
Sensor Power:	Self-Generating
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):	CMCP565A
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:

CMCP565	-X	Isolated Thermocouple Transmitter
CMCP565A	-X	Isolated Thermocouple Monitor
	-J	Type J
	-K	Type K
	-Specify	Specify Input (Mod Charge may Apply)



1010 East Main St. League City, TX 77573 Phone: 281-334-0766 Fax: 281-334-4255  
[www.stiweb.com](http://www.stiweb.com) / [www.stiwebstore.com](http://www.stiwebstore.com)

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