

## CMCP585(A) Eccentricity Transmitter/Monitor



### Transmitter Features:

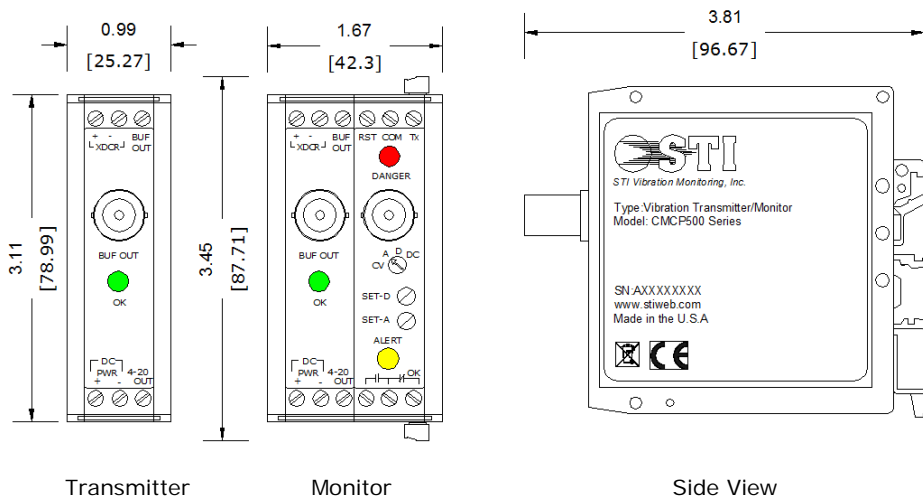
- Displacement Output (mils/um)
- Proximity Probe Input
- 5 Selectable Ranges
- 4-20mA Output
- Two Buffered Outputs
- Class 1 Division 2, Groups B-D
- CE Approved

### Monitor Features:

- OK, Alert and Danger Alarms
- 5A @240VAC Relay Outputs
- Latching or Non-Latching Alarms
- Trip Multiply (2x or 3x)
- Selectable Time Delay
- API 670 Compliant

The **CMCP585 Eccentricity Transmitter** and **CMCP585A Eccentricity Monitor** are compatible with all industry standard proximity probe systems. Each transmitter processes the signal through a Peak to Peak detector to determine the overall amplitude in terms of Displacement in either mils or microns ( $\mu\text{m}$ ). A 4-20mA DC output proportional to one of the five user selectable ranges 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 CMCP585 can be ordered with the optional alarm module by using the CMCP585A 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:



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## Specifications:

<b>Electrical Specifications:</b>	<b>CMCP585</b>
Input:	200 mV/mil (7.87 mV/um) Proximity Probe System Other Sensitivities Available Upon Request
Output:	4-20 mA DC Proportional to Displacement (600 Ohms max. resistive load)
Frequency Response @ -3db	30 to 300 RPM (Lower Speeds on Request)
Power:	+24 VDC 50 mA Nominal (100 mA with Alarm Module) Reverse Polarity and Transient Protected
Accuracy:	1% Full Scale
Selectable Ranges:	5.0, 10.0, 15.0, 20.0, 25.0 mils 127, 254, 381, 508, 635 um
Signal Detection:	Peak to Peak
Sensor Power:	Separate -24 VDC Power Supply
OK Circuit:	Green LED (On = OK), Not OK = Off and 4-20 mA < 2.0 mA
Timed OK/Alarm/Danger Defeat:	30 Seconds on Power Up or Loss of OK
Buffered Outputs:	Active Buffer, BNC and Terminal
Optional Filters:	Optional Pluggable High Pass and Low Pass Filters
Case:	Isolated
Terminals:	Screw Type, 24 AWG min, 12 AWG max.
<b>Environmental Specifications:</b>	
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
<b>Mechanical Specifications:</b>	
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

<b>Optional Alarm Module (Monitor):</b>	<b>CMCP585A</b>
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:

CMCP585	-XXX	Eccentricity Transmitter
CMCP585A	-XXX	Eccentricity Monitor
	-200	200 mv/mil (7.87 mV/um) Proximity Probe
	-Specify	Specify Input (Mod Charge Applies)



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