

CMCP 510 4-20 mA Loop-Powered 3 1/2 Digit Meter

The CMCP 500 loop-powered digital panel meters are complete with a large, easy to read display, and require no external power source. The large 9.4 mm digits exhibit uniform intensity over the entire 4-20 mA operating range. Additionally the total maximum loop voltage drop is only 5V.

Both gain (span) and offset (zero) adjustments are performed with on-board precision, 20 turn potentiometers. All decimal-point and range-change selections are made on a six-position DIP switch featuring vibration-resistant, gold-plated contacts. There are no jumpers or solder gaps to close. Connections to the current loop are made via a reliable, two-position, screw-type terminal block.

Specifications

Current Loop Input	Min.	Typ.	Max.	Units
Full Scale Input Range	+4	—	+20	mA
Input Impedance	—	250	—	Ω
Voltage Drop	—	4.0	5.0	V
Over-Current Protection	—	—	+/-40	mA

Performance

Sampling Rate	2.5 Per Sec			
Accuracy (1 min. Warm up)	+/- 0.05%FS	+/- 1	Count	
Temp. Drift (0-+60°C)	—	+/-0.15	+/-0.3	Cnts/°C

Display

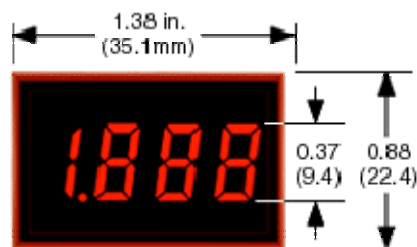
Display Type & Size	3.5 Digit	Red	LED	0.94 mm
Polarity Indication	“-” for Neg.			
Over-Range Indication	“-1__” for Neg.		“1__” for Pos.	

Physical/Environmental

Operating Temperature	0	—	60	*C
Storage Temperature	-40	—	75	*C
Humidity (Non-Condensing)	0	—	95	%
Case Material	Poly-Carbonate			
Weight	0.6 ounces		17 grams	

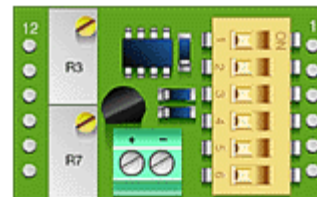


- Large (0.37"/9.4mm), Easy-to-Read LED Displays
- Subminiature 1.38 x 0.88 x 0.48 in. (35 x 22 x 12mm) Package
- Epoxy-encapsulated for Ruggedness



METER DEPTH: 0.48 in. (12mm)

ZERO/OFFSET ADJUST DIP SWITCHES



GAIN/SPAN ADJUST LOOP INPUT

Ordering Information:

	4 mA Input	20 mA Input
CMCP 510	-XXX	-XXX

Example

CMCP 510	00.0	25.0
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