

Fig. 1 — 1/8 Din Big Digit Panel Mount

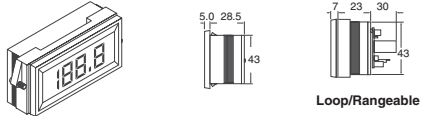


Fig. 2 — Window/Surface Mount LCD

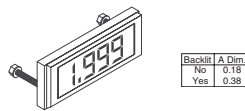


Fig. 3 — Snap-in LCD

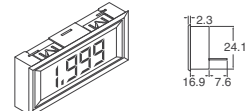


Fig. 4 — Snap-in LCD 1" (25.4mm) CUT-OUT!



Fig. 5 — Mini LCD

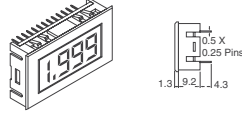


Fig. 6 — Flat Pack LCD

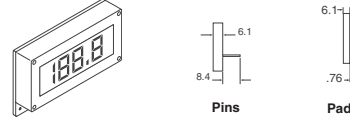


Fig. 7 — LCD Window/Surface Mount

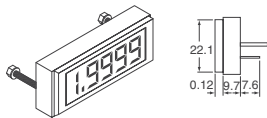


Fig. 8 — Panel Mount LED

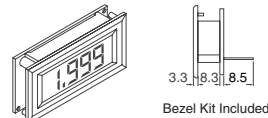
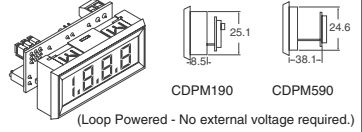


Fig. 9 — DIP Panel Meter LED



Fig. 10 — Process Meter



CTON Digital Panel Meters are low cost, professional looking meters for industrial and OEM applications. Voltmeter versions feature autozero on power up and can read both positive and negative DC voltages. Selectable decimal points allow easy voltage readings. LCD versions are available in either non-backlit (std. LCD) or backlit (Red, Green or Blue) for low light viewing. CTON's 4-20mA loop type meters are intended to interface with sensor inputs that require power from the meter to operate.

Sensors such as temperature, pressure, gas, airflow vibration, etc. can be used for loop meter monitoring. Use LCD meters for low power applications and long lifetimes or use LED versions for easier viewing in varying light conditions and different angles.

3.5 Digit LCD Specifications: • **Decimal Point:** User selectable 3-position • **Full Scale Ranges:** ±200mVDC, ±2VDC, ±20VDC • **Power:** 9VDC isolated @ 180µA, 5VDC @ 3mA • **Conversion Rate:** 2.5 per second • **Storage Temperature:** -10°C - 50°C • **Type:** Surface Mount • **Pins:** 13 or 10 pins, .64mm square on 2.54mm centers • **Backlit Power Options:** +5 VDC, ±5%, Red 165mA typical (200mA maximum); Green 115mA typical (160mA maximum) • **Backlit Connections:** Standard 2 solder pads • **Styles:** Surface/window or snap-in bezel mount

Miniature LCD Specifications: • **Annunciators:** 11 different user selectable annunciators: BAT, °C, °F, -, m, µ, MΩ, KΩ, V, A, HOLD • **Decimal Point:** User selectable 3-position • **Full Scale Range:** Standard ±200mVDC, ±2VDC • **Power:** 9VDC

isolated (7.2-15V) at 150µA, 5VDC @ 5mA • **Conversion Rate:** 2.5 per second • **Storage Temperature:** -20°C - 70°C • **Type:** Snap-in Bezel Mount • **Pins:** Standard 26 pins, .46mm square, DIP style

4.5 Digit LCD Specifications: • **Annunciators:** 9VDC powered meters have "BT" when power < 7.2VDC • **Decimal Point:** User selectable 4-position • **Hold:** Standard feature • **Full Scale Range:** ±200mVDC and ±2VDC • **Power:** 9VDC isolated @ 1mA, 5VDC @ 3.5mA • **Conversion Rate:** 2 per second • **Storage Temperature:** -10°C - 60°C • **Types:** Surface/window mount • **Pins:** 13 pins, .64mm square on 2.54mm centers

3.5 Digit LED Specifications: • **Type:** 7-segment light emitting diode (LED) • **Digits:** 0.56" (12.7mm) height • **Color:** Green or Red • **Polarity:** Displays (-) automatically • **Decimal Point:** User selectable 3-position • **Over/Under Range:** Over range displays "1" and under-range displays "-1" • **Hold:** Standard feature • **Full Scale Ranges:** ±200mVDC, ±2VDC, ±20VDC • **Configuration:** Bipolar, fully differential • **Power:** +5VDC, ±5% at 200mA • **Conversion Rate:** 3 per second • **Zeroing:** Automatic • **Operating Temperature:** 0°C - 50°C • **Storage Temperature:** -20°C - 70°C • **Relative Humidity:** 0 to 95% non-condensing • **Type:** Bezel Mount • **Pins:** Standard 10 pins, .64mm square on 2.54mm centers • **5-Year Unconditional Warranty**

Process Meter Specifications: • Meter and loop powered/controlled PCB in one unit • 3.5 or 4.5 digit • LCD and red or green LED • Fully scalable • 300Ω Impedance, nominal

Fig.	Supply	Input	Digit Color	Digi-Key Part No.	1	10	50	C-Ton Part No.	Use Cable Assy.
1/8 Din Big Digit 3.5 LCD									
1	Loop	4-20mA	(-)Red	CDPM802A-ND†	43.37	41.21	37.95	DK802A	Incl.
				CDPM803A-ND†	43.37	41.21	37.95	DK803A	Incl.
				CDPM807A-ND†	50.62	48.09	44.29	DK807A	—
				CDPM857B-ND	50.62	48.09	44.29	DK857B	—
Loop	4-20mA	(-)Green	CDPM957B-ND	50.62	48.09	44.29	DK957B	—	
			CDPM959-ND	50.62	48.09	44.29	DK959	—	
Range Selectable — RoHS Compliant									
1	12/24V	5/10V/200mV	—	CDPM809-ND†	50.62	48.09	44.29	DK809	—
		5/10V/200mV	(-)Green	CDPM959-ND	50.62	48.09	44.29	DK959	—
1/8 Din Big Digit 3.5 LED									
1	Loop	4-20mA	Green	CDPM852A-ND	43.37	41.21	37.95	DK852A	Incl.
				CDPM853A-ND	43.37	41.21	37.95	DK853A	Incl.
				CDPM951A-ND	43.37	41.21	37.95	DK951A	Incl.
				CDPM952A-ND	43.37	41.21	37.95	DK952A	Incl.
Loop	4-20mA	Green	CDPM953A-ND	43.37	41.21	37.95	DK953A	Incl.	
			CDPM959-ND	50.62	48.09	44.29	DK959	—	
Window/Surface Mount 3.5 Digit LCD									
2	Loop	4-20mA	—	CDPM101-ND†	28.89	27.45	25.29	DK101	J4C13
				CDPM102-ND†	28.89	27.45	25.29	DK102	J4C13
				CDPM103-ND†	28.89	27.45	25.29	DK103	J4C13
				CDPM301-ND†	28.89	27.45	25.29	DK301	J1C13
Loop	4-20mA	Green	CDPM302-ND†	28.89	27.45	25.29	DK302	J1C13	
			CDPM303-ND†	28.89	27.45	25.29	DK303	J1C13	
Loop	4-20mA	Green	CDPM331-ND	36.14	34.34	31.63	DK331	J1C13	
			CDPM332-ND	36.14	34.34	31.63	DK332	J1C13	
			CDPM432-ND	36.14	34.34	31.63	DK432	J1C13	
			CDPM532-ND	36.14	34.34	31.63	DK532	J1C13	
Snap-in 3.5 Digit LCD									
3	Loop	4-20mA	—	CDPM500-ND†	28.89	27.45	25.29	DK500	J1C13
				CDPM501-ND†	28.89	27.45	25.29	DK501	J1C13
				CDPM502-ND†	28.89	27.45	25.29	DK502	J1C13
				CDPM504-ND	28.89	27.45	25.29	DK504	J4C13
Loop	4-20mA	—	CDPM505-ND	28.89	27.45	25.29	DK505	J4C13	
			CDPM509-ND†	28.89	27.45	25.29	DK509	—	
Snap-in 3.5 Digit LCD - 25.40mm Cutout — RoHS Compliant									
4	Loop	4-20mA	—	CDPM110-ND†	28.89	27.45	25.29	DK110	J1C10
				CDPM111-ND†	28.89	27.45	25.29	DK111	J1C10
				CDPM112-ND†	28.89	27.45	25.29	DK112	J1C10
Miniature 3.5 Digit LCD									
5	Loop	4-20mA	—	CDPM201-ND†	28.89	27.45	25.29	DK201	—
				CDPM202-ND†	28.89	27.45	25.29	DK202	—
				CDPM204-ND†	28.89	27.45	25.29	DK204	—
				CDPM203-ND†	28.89	27.45	25.29	DK203	—

Fig.	Supply	Input	Digit Color	Digi-Key Part No.	1	10	50	C-Ton Part No.	Use Cable Assy.	
Flat Pack 3.5 Digit LCD										
6	Loop	4-20mA	—	CDPM171-ND§†	28.89	27.45	25.29	DK171	—	
				CDPM173-ND§†	28.89	27.45	25.29	DK173	—	
				CDPM174-ND§†	28.89	27.45	25.29	DK174	—	
				CDPM175-ND§†	28.89	27.45	25.29	DK175	—	
Loop	4-20mA	—	CDPM177-ND§†	28.89	27.45	25.29	DK177	—		
			CDPM178-ND§†	28.89	27.45	25.29	DK178	—		
			CDPM179-NDB	28.89	27.45	25.29	DK179	—		
Window/Surface Mount 4.5 Digit LCD										
7	Loop	4-20mA	—	CDPM702-ND†	36.14	34.34	31.63	DK702	J4C13	
				CDPM703-ND†	36.14	34.34	31.63	DK703	J4C13	
				CDPM704-ND†	36.14	34.34	31.63	DK704	J4C13	
				CDPM705-ND†	36.14	34.34	31.63	DK705	J4C13	
Snap-in 4.5 Digit LCD										
3	Loop	4-20mA	—	CDPM710-ND†	36.14	34.34	31.63	DK710	J4C13	
				CDPM711-ND†	36.14	34.34	31.63	DK711	J4C13	
				CDPM712-ND†	36.14	34.34	31.63	DK712	J4C13	
3.5 Digit LED — RoHS Compliant										
8	Loop	4-20mA	Green	CDPM601-ND	28.89	27.45	25.29	DK601	J1C10	
				CDPM602-ND	28.89	27.45	25.29	DK602	J1C10	
				CDPM603-ND	28.89	27.45	25.29	DK603	J1C10	
				CDPM604-ND	28.89	27.45	25.29	DK604	J1C10	
				CDPM605-ND	28.89	27.45	25.29	DK605	J1C10	
				CDPM606-ND	28.89	27.45	25.29	DK606	J1C10	
DIP Panel Meter 3.5 Digit LED										
9	Loop	4-20mA	Red	CDPM630-ND	33.24	31.58	29.09	DK630	—	
				CDPM631-ND	33.24	31.58	29.09	DK631	—	
				CDPM632-ND	33.24	31.58	29.09	DK632	—	
				CDPM633-ND	40.48	38.46	35.43	DK633	—	
				CDPM634-ND	40.48	38.46	35.43	DK634	—	
				CDPM635-ND	40.48	38.46	35.43	DK635	—	
				CDPM636-ND	40.48	38.46	35.43	DK636	—	
				CDPM637-ND	40.48	38.46	35.43	DK637	—	
CDPM638-ND	40.48	38.46	35.43	DK638	—					
DIP Panel Meter 3.5 Digit LED with Hold Function										
9	Loop	4-20mA	Red	CDPM642-ND	36.14	34.34	31.63	DK642	—	
Bezel for 630/640 Series										
					CDPM650-ND	1.52	1.45	1.34	DLA-BEZ	—
Process Meter — RoHS Compliant										
10	Loop	4-20mA	—	CDPM590-ND†	47.07	44.72	41.19	DK590	—	
				CDPM190-ND†	47.07	44.72	41.19	DK190	—	

Note: Other ranges and colors are available on our web site. § Pad ‡ Pin † Non-Backlit ◆ RoHS Compliant

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