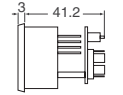
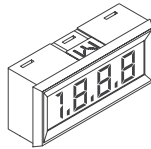


**Voltage and Process Meters**

C-TON's industrial digital meters intended as replacement meters for many popular panel and process meters. Wide range of input voltages, display options and user selectable annunciators make these meters universal for use as voltmeters, temperature readings, pressure readings and percentage displays.



(diagram shown is Rangeable version)



**5 year Unconditional Warranty**

**SPECIFICATIONS:**

- **Display Type:** 45° (11.4mm) 7 segment LCD
- **Annunciators:** °F, °C, PSI, %, user selectable
- **Decimal Points:** User selectable
- **Panel Cutout:** 1" x 2.4"
- **Panel Clearance Required:** 1.25" (31.75mm)
- **Input Ranges:** ±200mVDC, ±2VDC, ±20VDC
- **Over/Under Range Indication:** 1.... / -1....
- **Configuration:** Bipolar Differential
- **Performance Conversion Rate:** 3 per second
- **Operating Temperature:** 0°C - 50°C
- **Power Supply:** 5VDC @ 3.5mA
- **Backlight Power:** 5VDC
- **Mounting:** Snap-in bezel
- **Connection:** 13 pins, 0.025" (.64mm) square on 0.100" (2.54mm) centers

**PROCESS SPECIFICATIONS:**

- **Meter and loop powered PCB** in one package
- **Panel Clearance Required:** 1.75" (44.45mm)
- **Input Range:** Fully scalable
- **Power Supply:** 4-20mA process loop
- **Optional Backlight Power:** 5VDC or 24VDC
- **Connection:** 2 pin screw terminals (4 pin with optional backlights)

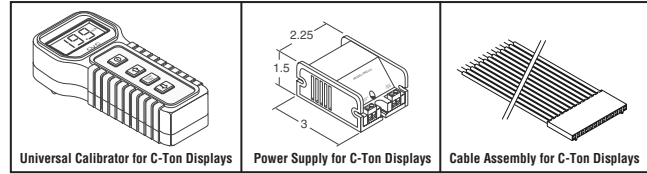
**RANGEABLE VOLTAGE SPECIFICATIONS:**

- 3.5 and 4.5 digit with high-contrast LCD display
- **Input Ranges:** 0-5VDC, 0-10VDC or 0-200mvDC (selectable)
- **Power Supply:** 12VDC or 24VDC regulated (selectable)
- **Optional Backlight Power:** 24VDC @ 24mA
- **Connection:** 6 screw terminal

| Power Supply         | Input                    | Digit Color | Backlit Voltage | Digi-Key Part No. | Price Each |       |       | C-Ton Part No. | Use Cable Assembly |   |
|----------------------|--------------------------|-------------|-----------------|-------------------|------------|-------|-------|----------------|--------------------|---|
|                      |                          |             |                 |                   | 1          | 10    | 50    |                |                    |   |
| <b>3.5 Digit LCD</b> |                          |             |                 |                   |            |       |       |                |                    |   |
| +5                   | 200mV                    | —           | —               | CDPM541-ND        | 39.80      | 37.81 | 34.83 | DK541          | J4C13              |   |
|                      | 2V                       | —           | —               | CDPM542-ND        | 39.80      | 37.81 | 34.83 | DK542          | J4C13              |   |
|                      | 20V                      | —           | —               | CDPM543-ND        | 39.80      | 37.81 | 34.83 | DK543          | J4C13              |   |
|                      | 2V                       | (-) Amber   | 5VDC            | CDPM552-ND        | 49.78      | 47.30 | 43.56 | DK552          | J4C13              |   |
|                      | 20V                      | (-) Amber   | 5VDC            | CDPM553-ND        | 49.78      | 47.30 | 43.56 | DK553          | J4C13              |   |
|                      | 2V                       | (-) Green   | 5VDC            | CDPM562-ND        | 49.78      | 47.30 | 43.56 | DK562          | J4C13              |   |
|                      | 20V                      | (-) Green   | 5VDC            | CDPM563-ND        | 49.78      | 47.30 | 43.56 | DK563          | J4C13              |   |
|                      | 2V                       | (-) Red     | 5VDC            | CDPM572-ND        | 49.78      | 47.30 | 43.56 | DK572          | J4C13              |   |
|                      | 20V                      | (-) Red     | 5VDC            | CDPM573-ND        | 49.78      | 47.30 | 43.56 | DK573          | J4C13              |   |
|                      | <b>3.5 Digit Process</b> |             |                 |                   |            |       |       |                |                    |   |
|                      | Loop                     | 4-20mA      | —               | —                 | CDPM191-ND | 71.82 | 68.23 | 62.85          | DK191              | — |
|                      |                          |             | (-) Amber       | 24VDC             | CDPM192-ND | 81.80 | 77.71 | 71.58          | DK192              | — |
| (-) Green            |                          |             | 24VDC           | CDPM193-ND        | 81.80      | 77.71 | 71.58 | DK193          | —                  |   |
| (-) Red              |                          |             | 24VDC           | CDPM194-ND        | 81.80      | 77.71 | 71.58 | DK194          | —                  |   |
| <b>3.5 Rangeable</b> |                          |             |                 |                   |            |       |       |                |                    |   |
| 12/24V               | 5/10V/200mV              | (-) Amber   | 24VDC           | CDPM196-ND        | 81.80      | 77.71 | 71.58 | DK196          | —                  |   |
|                      |                          | (-) Green   | 24VDC           | CDPM197-ND        | 81.80      | 77.71 | 71.58 | DK197          | —                  |   |
|                      |                          | (-) Red     | 24VDC           | CDPM198-ND        | 81.80      | 77.71 | 71.58 | DK198          | —                  |   |
|                      |                          | —           | —               | CDPM199-ND        | 71.82      | 68.23 | 62.85 | DK199          | —                  |   |
| <b>4.5 Digit LCD</b> |                          |             |                 |                   |            |       |       |                |                    |   |
| +5                   | 200mV                    | —           | —               | CDPM741-ND        | 49.78      | 47.30 | 43.56 | DK741          | J4C13              |   |
|                      | 2V                       | —           | —               | CDPM742-ND        | 49.78      | 47.30 | 43.56 | DK742          | J4C13              |   |
|                      | 20V                      | —           | —               | CDPM743-ND        | 49.78      | 47.30 | 43.56 | DK743          | J4C13              |   |
|                      | 2V                       | (-) Amber   | 5VDC            | CDPM752-ND        | 59.74      | 56.76 | 52.28 | DK752          | J4C13              |   |
|                      | 20V                      | (-) Amber   | 5VDC            | CDPM753-ND        | 59.74      | 56.76 | 52.28 | DK753          | J4C13              |   |
|                      | 2V                       | (-) Green   | 5VDC            | CDPM762-ND        | 59.74      | 56.76 | 52.28 | DK762          | J4C13              |   |
|                      | 20V                      | (-) Green   | 5VDC            | CDPM763-ND        | 59.74      | 56.76 | 52.28 | DK763          | J4C13              |   |
|                      | 2V                       | (-) Red     | 5VDC            | CDPM772-ND        | 59.74      | 56.76 | 52.28 | DK772          | J4C13              |   |
|                      | 20V                      | (-) Red     | 5VDC            | CDPM773-ND        | 59.74      | 56.76 | 52.28 | DK773          | J4C13              |   |
|                      | <b>4.5 Digit Process</b> |             |                 |                   |            |       |       |                |                    |   |
|                      | Loop                     | 4-20mA      | —               | —                 | CDPM790-ND | 89.78 | 85.30 | 78.56          | DK790              | — |
|                      |                          |             | (-) Green       | 24VDC             | CDPM793-ND | 98.76 | 93.83 | 86.42          | DK793              | — |
| (-) Red              |                          |             | 24VDC           | CDPM794-ND        | 98.76      | 93.83 | 86.42 | DK794          | —                  |   |
| —                    |                          |             | —               | CDPM799-ND        | 89.78      | 85.30 | 78.56 | DK799          | —                  |   |
| <b>4.5 Rangeable</b> |                          |             |                 |                   |            |       |       |                |                    |   |
| 12/24V               | 5/10V/200mV              | (-) Amber   | 24VDC           | CDPM796-ND        | 98.76      | 93.83 | 86.42 | DK796          | —                  |   |
|                      |                          | (-) Green   | 24VDC           | CDPM797-ND        | 98.76      | 93.83 | 86.42 | DK797          | —                  |   |
|                      |                          | (-) Red     | 24VDC           | CDPM798-ND        | 98.76      | 93.83 | 86.42 | DK798          | —                  |   |
|                      |                          | —           | —               | CDPM799-ND        | 89.78      | 85.30 | 78.56 | DK799          | —                  |   |

• RoHS Compliant

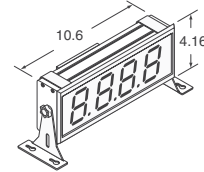
**Optional Accessories for all CTON Displays**



| Description  | Digi-Key Part No. | Price Each |       |       | C-Ton Part No. |
|--|-------------------|------------|-------|-------|----------------|
|  |                   | 1          | 10    | 50    |                |
| <b>Current and Voltage Calibrator — RoHS Compliant</b> |                   |            |       |       |                |
| Programmable Current and Voltage Calibration Unit      | CDPM1009-ND       | 149.00     | —     | —     | CVC            |
| <b>Power Supplies</b>                                  |                   |            |       |       |                |
| 5VDC Out, 300mA  | CDPM1000-ND       | 20.90      | 19.86 | 18.29 | PW2-5          |
| 12VDC Out, 200mA                                       | CDPM1001-ND       | 20.90      | 19.86 | 18.29 | PW2-12         |
| 24VDC Out, 100mA                                       | CDPM1002-ND       | 20.90      | 19.86 | 18.29 | PW2-24         |
| <b>Cable Assemblies — RoHS Compliant</b>               |                   |            |       |       |                |
| 10 Pin Connector with 12" Wires, 26AWG                 | CDPM1003-ND       | 3.16       | 3.01  | 2.77  | J1C10          |
| 13 Pin Connector with 12" Wires, 26AWG                 | CDPM1004-ND       | 3.16       | 3.01  | 2.77  | J1C13          |
| 13 Pin Connector with 12" Wires, 26AWG                 | CDPM1005-ND       | 3.16       | 3.01  | 2.77  | J4C13          |

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**Large Digit Voltage Meters**



**SPECIFICATIONS:**

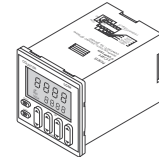
- **Display Digits:** 3.5 digits (±1999)
- **Set Voltage Ranges:** ±200mVDC, ±2VDC, ±20VDC
- **Adjustable Voltage Ranges:** 200mVDC, 5VDC, 10VDC
- **Offset Range:** -1999 - 1999
- **Gain Range:** 1 - 1000
- **4-20mA Loop Ranges:** 4 - 20mADC
- **Operating Temperature:** -10°C - 50°C
- **Power Supply:** 90 - 250VAC @ 12VA
- **Mounting:** 180° gimbal mounting with 30° stops, or bezel mount
- **Connection:** Screw terminals

| Description   | LED Color | Digi-Key Part No. | Price Each | C-Ton Part No. |
|---|-----------|-------------------|------------|----------------|
| 2.3" Universal Current and Voltage Meter with Mounting Hardware | Red       | CDPM1006-ND       | 349.00     | BDR-999R       |
|   | Green     | CDPM1007-ND       | 349.00     | BDR-999G       |
|   | Blue      | CDPM1008-ND       | 349.00     | BDR-999B       |

**Panasonic Counters and Timers**

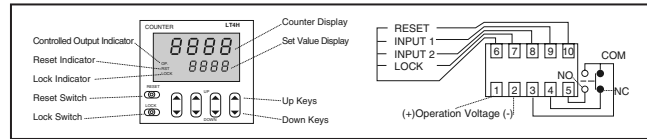
**Panasonic Electric Works**

**LC4H Digital Counters**



Panasonic/Aromat's LC4H Digital Counters are presettable counters that will count up or count down until your preset count is reached, then trigger the internal relay to switch in one of seven output modes.

Features such as 2 color back-lit display and waterproof front panel display allow this counter to be used in extreme environments.



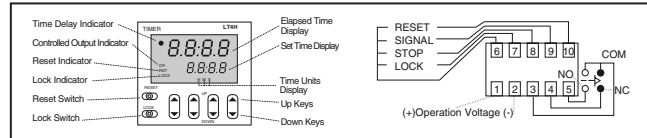
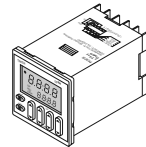
| Operating Voltage | Terminal     | Digi-Key Part No. | 1      | Price Each | 25    | 50    | Panasonic Part No. |
|-------------------|--------------|-------------------|--------|------------|-------|-------|--------------------|
| 100-240VAC        | 11 pin octal | 255-1218-ND       | 106.00 | 95.40      | 90.10 | 90.10 | LC4H-RA-AC240V     |
| 100-240VAC        | Screw        | 255-1219-ND       | 110.50 | 99.45      | 93.93 | 93.93 | LC4H-RA-AC240VS    |
| 12-24VDC          | 11 pin octal | 255-1220-ND       | 101.00 | 90.90      | 85.85 | 85.85 | LC4H-RA-DC24V      |
| 12-24VDC          | Screw        | 255-1221-ND       | 105.50 | 94.95      | 89.68 | 89.68 | LC4H-RA-DC24VS     |

• RoHS Compliant

**LT4H Digital Timers**

Panasonic/Aromat's LT4H Digital Timer is intended for process control for applications requiring duration time control such as delay-on/off, repeat cycle and start/stop time accumulation. The LT4H has features such as a bright 2 color back-lit display and EE-Prop memory, keeping your program settings without the need of an internal battery. The waterproof front panel keeps out dirt and water under poor operating conditions.

Timing from .001 second to 999.9 hours, with 8 modes of operation and built-in timed SPDT relay (5A 250VAC).



| Operating Voltage | Terminal     | Digi-Key Part No. | 1      | Price Each | 25    | 50    | Panasonic Part No. |
|-------------------|--------------|-------------------|--------|------------|-------|-------|--------------------|
| 100-240VAC        | 11 pin octal | 255-1214-ND       | 104.00 | 93.60      | 88.40 | 88.40 | LT4H-AC240V        |
| 100-240VAC        | Screw        | 255-1215-ND       | 104.00 | 93.60      | 88.40 | 88.40 | LT4H-AC240VS       |
| 12-24VDC          | 11 pin octal | 255-1216-ND       | 104.00 | 93.60      | 88.40 | 88.40 | LT4H-DC24V         |
| 12-24VDC          | Screw        | 255-1217-ND       | 104.00 | 93.60      | 88.40 | 88.40 | LT4H-DC24VS        |

• RoHS Compliant

**More Product Available Online: [www.digkey.com](http://www.digkey.com)**

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