

L.E.D. DIGITAL DISPLAYS

FEATURES

- 3-1/2 & 4 Digit Configuration
- Rack Mountable
- Easy to Read Red-Orange L.E.D.
- Auto-Zero (No Zero Adjustment)

Climatronics' LED Digital Displays, part numbers 100894-1, -2, and -3, combine high reliability, moderate cost, rugged construction, and large bright digits to meet the most demanding applications. These rack mountable displays utilize bright red-orange L.E.D. digits.

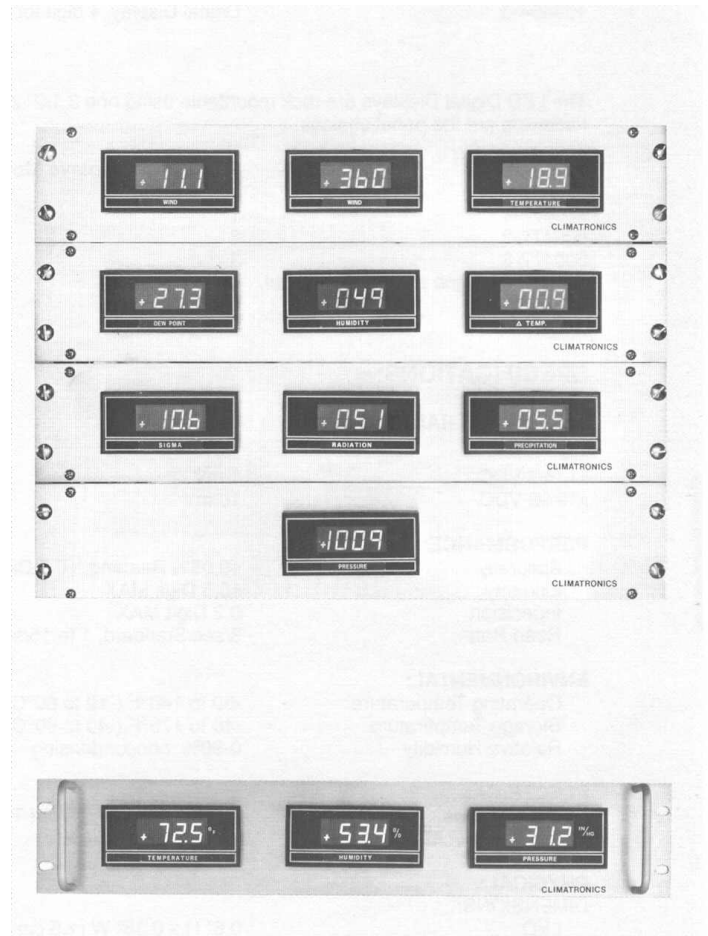
These displays use a passive integration, dual slope, analog to digital conversion technique which provides excellent long-term stability, accuracy, linearity, noise rejection, and jitter-free performance.

Standard features include differential and bipolar single-ended signal input, rugged glass filled Cyclocac case and single edge, card type electrical connection to provide easy maintenance and replacement.

The displays use differential signal input which offers a particular advantage when used in high electrical noise environments or when noise is likely to be present on the signal input leads. Differential input has the effect of canceling this noise allowing the unit to display the true signal.

The required DC inputs are supplied by Climatronics' various signal conditioners.

Each display is factory labeled with type of parameter to be displayed and units of measure, both of which must be specified at the time of order.



The part number 100894-2 display includes a 540-360° converter for wind direction.
 The following versions of the 100894 are available for different parameters:

Part Number	Description/Parameter
100894-1	Digital Display, 3 1/2 digit for Wind Speed, Temperature, Relative Humidity, Dew Point, Precipitation, Solar Radiation or Barometric Pressure (millibars).
100894-2 Digital Display	3 1/2 digit for Wind Direction. This display includes a 540° to 360° converter.
100894-3 Digital Display	4 digit for Barometric Pressure (inches of mercury).

The LED Digital Displays are rack mountable using one 3 1/2" x 19" panel (part number 102209).
 Following are the panel choices:

Part Number	Number of Displays Mounted
102209-1	1
102209-2	2
102209-3	3

Handles for each panel are optional.

SPECIFICATIONS

FULL SCALE RANGE

	Resolution	Input Impedance
±1.999 VDC	1 mV	1000 m
±19.99 VDC	10 mV	1 m

PERFORMANCE

Accuracy:	±0.05% Reading, ±0.5 Digit
Linearity:	±0.5 Digit MAX
Indecision	0.2 Digit MAX
Read Rate	3/sec Standard, 1 to 15/sec Selectable (optional)

ENVIRONMENTAL

Operating Temperature	-50° to 140°F (-10° to 60°C)
Storage Temperature	-40° to 176°F (-40° to 80°C)
Relative Humidity	0-90% noncondensing

ELECTRICAL

Input Voltage	5 VDC ±5% at 1.0 Watt Typical
Operating Voltage	115/220 VAC 60/50Hz

PHYSICAL

DIMENSIONS:

LED	0.6" H x 0.35" W (1.5 cm H x .9 cm W)
Overall	4"H x 1.75" W x 3" D (10.1 cm H x 4.4 cm W x 7.6 cm D)
	Case Glass filled Cyclocac KJB for rugged construction and fire retardant capability.
	Window Anti-reflection filter matched to display color.



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