

Digital Voltmeter - DCV00



Digital Voltmeter

The Digital Voltmeter allows the user to integrate a custom sensor to the sensorProbe while still retaining all of the features of the standard sensors. The Digital Voltmeter has the full range of functionality including SNMP integration, email and trap generation upon settable limits and thresholds.

Customers have added pressure transducers, Solar Power Monitors, Battery Monitors, have integrated the sensorProbe into laboratory test equipment, and many other uses.

Digital Voltmeter can be used by OEMs and engineers to create their own custom data collection systems. The user can configure sensor input voltage range from -60 to 0 volts or 0 to 60 volts. Digital Voltmeter can provide real time data from the world around them.

Readings are available in both an absolute value and a percentage of full scale. Full scale is user programmable with both the

base and top voltage from -60 to 0 or 0 to 60 volts.

The web interface for the Digital Voltmeter is now redesigned to ease the settings when used with the external sensor. The unit of a measured entity can be customized to any text, e.g. Lbs for measuring the pressure. All numbers are now in a decimal point format; hence, it is possible to enter 12.8 Volts or 75.7 Lbs in threshold settings, for example. The display in graph, emails and traps are now in a decimal point format as well.

SNMP interface for alarm/normal status. SNMP traps sent when status changes. SNMP polling via get available. Web browser interface available. When an alarm condition is activated the description and location of the fault can be sent via email.

Digital Voltmeter's Main Features

- **Daisy-chainable temperature sensors that includes a 5 ft CAT5 cable**
- **Comes in a 4 or 8 string combination.**
- **RJ-45 connection for easy and Simple installation**
- **Full autosense including disconnect alarm**
- **securityProbe units auto detects the presence of the daisyTemp strings**

Technical Specifications

Measurement Range : -60 to + 60 volts with status High Warning, Low Warning, High Critical, Low Critical

Communications Cable : RJ45 jack to sensor using UTP Cat 5 wire, Maximum extension cable length 100 feet with approved low capacitance shielded cable or UTP.

Resolution is a hundredth of the full scale (example, scale of 10v = resolution of 0.01, scale of 60v = resolution of 0.06v)

Accuracy : $\pm 1\%$

Conversion Time : 280uSec

Measurement Rate : multiple readings every second