Remote PowerSens™ Monitor and Control

Features

- Remotely Measure 4 Voltages, 4 Currents, 2 Temperatures
- Remotely Control Equipment With 4 Relays
- Automatically Control Relays Based on Temp, Ping, Time
- Access via Web or SNMP. Automatically Send Email Alerts
- On-Board Datalogger and History Graphs
- DIN Rail Mounting

Description

The PowerSens™ Web Based Remote Monitor and Control System is a versatile tool which enables the equipment designer and installer to remotely monitor his equipment and site. The unit can be accessed via the network (web and SNMP) to remotely monitor up to 4 voltages, 4 currents, 2 temperatures and control power to various equipment using 4 on-board relays. The system has built-in surge protection to prevent damage from electrical surges.

On board data-logging and graphing capabilities allow the user to see history of the various parameters being measured. The graphical interface allows the user to control relays via a single mouse click and monitor all the measurement parameters real-time via any web browser. The web interface allows access and control via desktops, laptops, tablets and smartphones.

The system allows control of 2 of the relays directly via the temperature sensors. The user can set temperature limits and automatically turn on the relays when the measured temperature exceeds the set temperature. This feature can be used to control fans, heaters or other equipment which needs to be powered on/off based on a particular interior or exterior temperature. The other 2 relays can be controlled by an integrated Ping Watchdog or Time Control. Ping Watchdog Control is useful to power cycle equipment if that equipment fails to respond to pings. Time Control is useful for controlling things such as lights that need to be turned on and off at certain times during the day.

The relays have a special one-click cycle feature with programmable cycle times which can be used to turn a device off and then back on after the predetermined time with a single button click. This is useful for rebooting a device like a POE Switch by power cycling it, thereby rebooting all devices attached to the switch. The relays are normally closed type so they don't use any power in their normal operating mode.

Two of the current ports provide bi-directional current (+/-), showing direction of current flow. This is useful for monitoring batteries so you can see when the battery is charging and when it is discharging.

Connections are via removable wire terminal connectors. This allows for easy troubleshooting and maintenance because the unit can be removed from the system without disturbing the system wiring.

User defined labels for each parameter makes sure that when viewing the web interface or graphs that users can quickly identify the parameter they are concerned about. An internal clock based on PC time or Internet time ensures that data logging is accurate. Each Monitor can also have a unique name to identify it on the network. This makes it easy to manage multiple units on a network.

Each parameter has programmable +/- offsets to be able to perform field calibration to compensate for things such as line loss or variations in measuring equipment. This provides unsurpassed flexibility as each device can be tailored by customer to her specific needs.

The unit can be setup to send emails of the present parameter readings based on a periodic time period or based on parameters exceeding programmable preset limits. There are 4 independent email alerts that can be set.

A free discovery tool is available via download to assist in finding the Tycon RP-Monitor-WEB units on the network. It works across different subnets. This is helpful if a user forgets the IP address of the unit or has the unit configured for DHCP client and he is unsure what IP address the unit is operating on.

Specifications

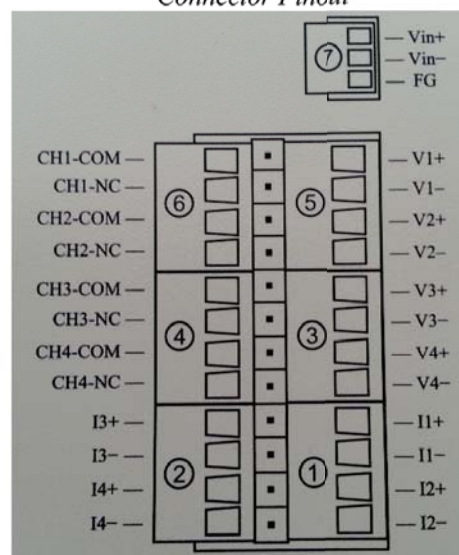|	TPDIN-Monitor-WEB
Voltage Measurement (DC)	V1, V2, V3, V4 = 1-80VDC
Voltage Measurement Accuracy	+/- 0.1V
Current Measurement (DC)	I1, I2 = 0.1A to 20A I3, I4 = +/-10A
Current Measurement Accuracy	+/- 0.1A
Common Mode Voltage Range	-20V to +80V
Temperature Measurement	T1,T2 = -40C to 125C
Temperature Measurement Type	T1 = Embedded, T2 = External Sensor (included)
Temperature Measurement Accuracy	+/- 1 degC
Relays (Normally Closed Type)	R1, R2, R3, R4 = 10A 30VDC, 125-250VAC
Relay Control	R1, R2 = Manual or automatic based on Ping or Time Control R3, R4 = Manual or Automatic based on program temperature
Power Requirements	10-58VDC Wire Terminal or 802.3af Class 0 POE, 3W Typ
Accessibility	Via Web Browser and SNMP
Data-Logger	FIFO, Max 1300 data sets, Programmable log interval
Connections	Removable Wire Terminal
Wire Size	12AWG Max
Mounting	DIN Rail
Operating Temperature	-40C to +75C (-40F to 167F)
Humidity (RH)	0% - 90%
Dimensions (LxWxH)	125 x 102 x 46mm (4.9" x 4" x 1.8")
Weight	410g (14.5 oz)

Notes:

- All shipments F.O.B. Bluffdale, UT 84065
- TPDIN-Monitor-WEB carries a 2 year warranty

DIN Rail Attachment

Connector Pinout

Ordering:

TPDIN-Monitor-WEB   Remote Monitor and Control System

For further information contact:

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