

Smart Panel—PRO1

The Smart Panel—PRO1 is designed to monitor up to (2) Devices

Description:

The SP-PRO1 is a microprocessor based controller that is designed to monitor devices via serial communications, network, or by dry-contacts inputs. A local touch panel display allows users to view and monitor conditions from all connected equipment. Additionally, the SP-PRO1 can provide email and text notifications as well as provide Web, Modbus TCP and SNMP protocols for integration to other systems.

All base models provide network connectivity as well as a local touch panel display for monitoring and configuration.

Standard Functionality:

- Monitor up to (2) devices by either serial, network communications or via dry-contacts (IO module included)
- Local annunciation of alarm conditions
- Real-time and Historical Trend graphing for all points
- Modbus TCP and SNMP protocol outputs for other monitoring systems

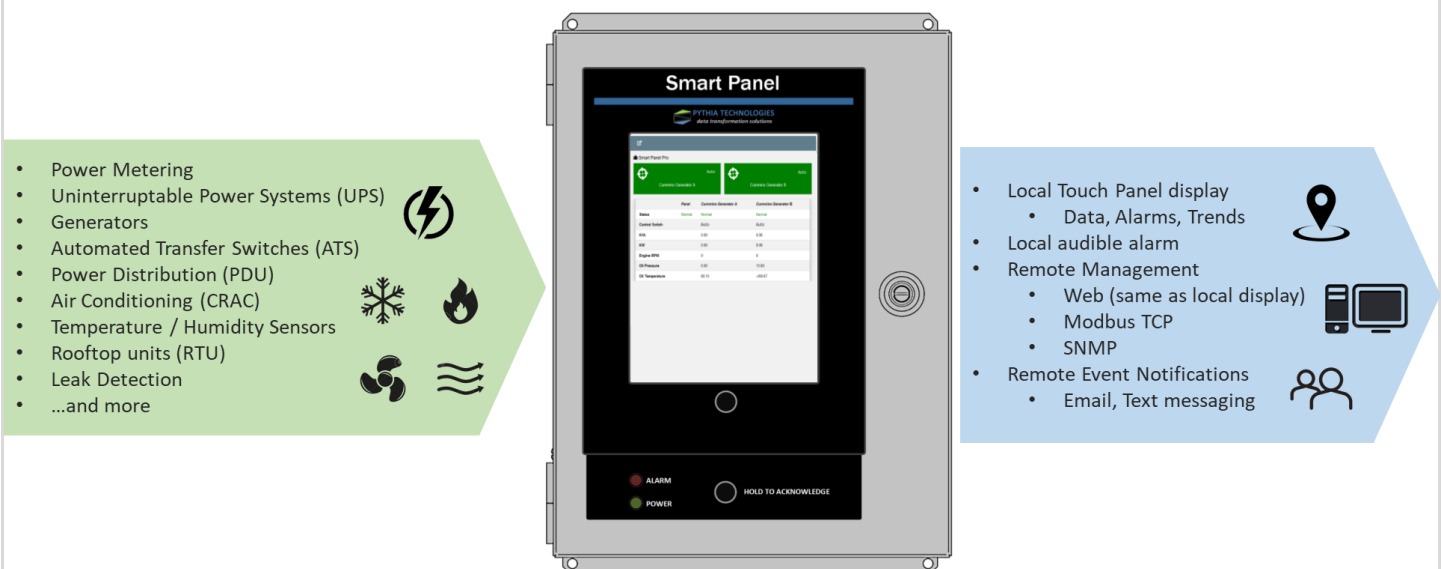
Standard Features:

- Web enabled for configuration and operational viewing
- Remote event notifications when connected to the customers network
- Data logging and trend graphing
- Extensible by adding more I/O capability
- Internal horn, power and common alarm indicators

Models:

- SP-PRO1 with Touch Panel Display

Overview:





Main Functions:

- Manage up to (2) Devices via the serial, network communications or dry-contact inputs.
- Front Panel:
 - Common alarm annunciator and LED
 - Event Acknowledge button (alarm silence)
 - Power LED
- Touch Panel Display:
 - Status display for all monitored points
 - Color indication of overall panel and point state
 - Full configuration and management of panel
 - Secure display holder

Additional Features:

- Network connectivity
 - Configure via front panel display, or via remote PC (laptop)
 - Remote Management / remote display capable
 - Event notifications (SMTP email / text, SNMP trap)
 - Modbus TCP for BMS systems (R/W)
 - SNMP for NMS systems (R/W)
- Optional version without display

Open Protocol Support (SNMP and Modbus TCP) notes:

SNMP:

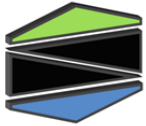
By default, the SNMP community string is “empty” so the Smart Panel will not respond to SNMP queries until the community string is assigned. In the configuration console, see Settings / SNMP Settings for details.

Modbus TCP:

The Smart Panel will respond to any valid Modbus Slave ID: (1-247) .

Both protocols:

Data points will return “00” when units are disabled or not configured. Additionally, if the main processor loses communications with the IO board, “00” will be returned for all points with the exception being the first point - Panel Communications.



Front Panel Display— Screen Examples

Smart Panel Pro

Auto
Cummins Generator A

Auto
Cummins Generator B

Panel	Cummins Generator A	Cummins Generator B
Status		
Control	≡ Cummins Generator A	
KVA	= Data	
KW	= Alarm	
Engine	Battery Voltage 24.80 (VDC)	Charger AC Failure Normal
Oil Pres	Control Switch Unknown (Status)	Check Genset Normal
Oil Tem	Coolant Temperature 102.47 (F)	Common Alarm Normal
	Current A 0.00 (A)	Emergency Stop Normal
	Current B 0.00 (A)	Fail To Close Normal
	Current C 0.00 (A)	Fail To Start Normal
	Engine RPM 0 (RPM)	Fail To Sync Normal
	Engine Runtime 0.00 (h)	Generator Not in Auto Normal
	Engine Starts 0 (Count)	Generator Running Normal
	Frequency 0.00 (Hz)	Genset Circuit Breaker Tripped Normal
	Fuel 0.00 (g)	Ground Fault Normal
	Fuel Rate 0.00 (gph)	High AC Voltage Normal
	Input 1 Voltage A 0.00 (V)	High Battery Voltage Normal
	Input 1 Voltage AB 119.00 (V)	High Engine Temperature Normal
	Input 1 Voltage B 0.00 (V)	Load Demand Normal
	Input 1 Voltage BC 0.00 (V)	Load on Generator Normal
	Input 1 Voltage C 0.00 (V)	Low AC Voltage Normal

SPECIFICATIONS

Maximum number devices monitored	2
Maximum number of dry-contact inputs	7
Dry-contact input	SP-PRO1 sourced: (must be volt-free at generator or ATS)
Web Interface	Yes Web page used for configuration and operational viewing
Web page browser compatibility	All web browsers (Ex. MS Internet Explorer, MS Edge, Firefox, Chrome, Safari)
Smart phone / Smart device compatibility	Yes
Operating Temperatures	0C to +40C (inside enclosure)
Storage Temperature (non-operating)	-40C to +60C (inside enclosure)
Relative Humidity	10 to 95%, non-condensing
Power	120VAC (UPS PROTECTED PREFERRED) / 40 Watts Max
Mounting	Wall mount / Screw mount , thru-hole flange
Size / Weight	17.5" (L) x 12" (W) x 4" (H) / 20lbs (max).

Wire Specifications

Ethernet / IP	Standard CAT5/6 (300ft max)
Device Communications / Volt Free input contacts	18 AWG, stranded, unshielded (1-pair, 500 ft max) Belden 9740 / 89740
Power (connect to 120VAC to 24VDC Transformer)	14/3 AWG, stranded or solid

Ordering (Please call for alternate assembly pricing)

SP-PRO1 (Base assembly with touch panel display / alarm annunciator / acknowledge / silence button)



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Specification may change at anytime without notice.

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