

Smart Panel—AC4

The Smart Panel—AC4 is designed to provide auto sequencing, failover and staging for 2 to 4 devices within 1 or 2 groups.

Description:

The SPAC4 is a microprocessor based controller that is designed to monitor dry-contact summary alarm conditions from any piece of equipment that requires an automated way to provide auto sequencing, failover, or staging. The relay outputs of the SPAC4 signal the external equipment to start / stop based on the parameters set within the program.

Each feature of auto sequencing, failover and staging may be enabled / disabled so users can define exactly how the system should operate for their environment.

All base models provide network connectivity for configuration and remote monitoring. The base model includes a touch panel local display (default) and user may opt for an LED front panel display.

Standard Functionality:

- Monitor up to 4 devices thru dry contacts
- Control devices thru start/stop relay
- Auto-Sequencing enable / disable
- Fail-over enable / disable
- Unit and alarm latching function
- 4-step staging (per group)
- Modbus/TCP and SNMP for remote systems

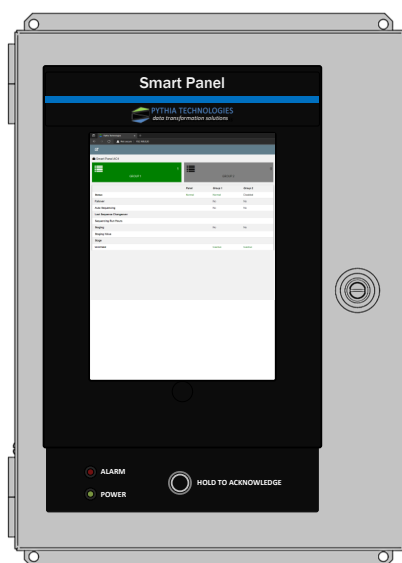
Standard Features:

- Web enabled for configuration and operational viewing
- Event Notifications when connected to the customers network
- Alarm history, Data logging and Trend graphing
- Common alarm output
- Internal horn, power and common alarm indicators

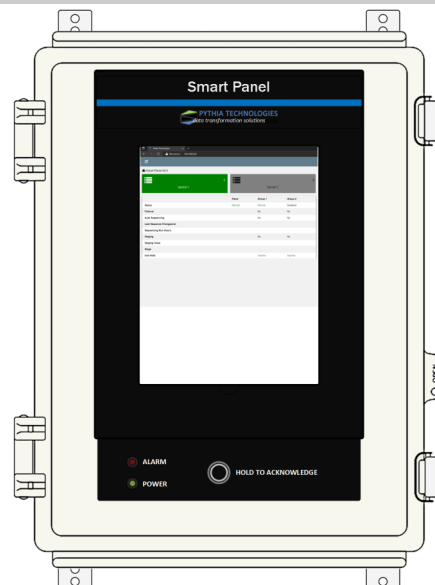
Models:

- SPAC4-UL (UL508A listed), steel enclosure
- SPAC4 , ABS enclosure
- Optional: 24VAC and 48VDC power supplies

Assembly Options:



SPAC4-UL, steel enclosure



SPAC4, ABS enclosure



Primary Functions:

Manage up to (4) units within (2) groups. All features noted below may be enabled / disabled to suit the unique needs of the site.

Failover:

Common Alarm input from the device triggers the Failover action. The first standby unit will be commanded to run.

Options:

Latch Primary Alarm (requires reset by user)

Latch Primary Unit On (the alarming unit will remain running while in alarm)

Auto-Sequencing:

Based on an interval, primary and standby units will switch roles to establish equal run times.

Interval Options:

Day of Month (1—31), Day of Week (Sunday—Saturday), Days (1-62)

Auto-change Hour (0—24) and Minute (0—59)

Staging:

Devices can be commanded to run based on the value of the connected analog sensor and thresholds.

This feature works in conjunction with Failover and Auto-Sequencing, or may be used alone.

Sensor compatibility:

Type II 10K F (1ea. included with panel), Type II 10K C, 0—5 VDC, 0—10 VDC

Inputs:

Common / Summary dry-contact (volt-free) inputs signal a problem with the device.

One dry-contact required for each connected device.

Outputs:

Each output relay has (1) set of Normally Open / Normally Closed contacts to match the device's default state.

Internal settings within the panel must match the physical connectivity of the relay for proper operation.

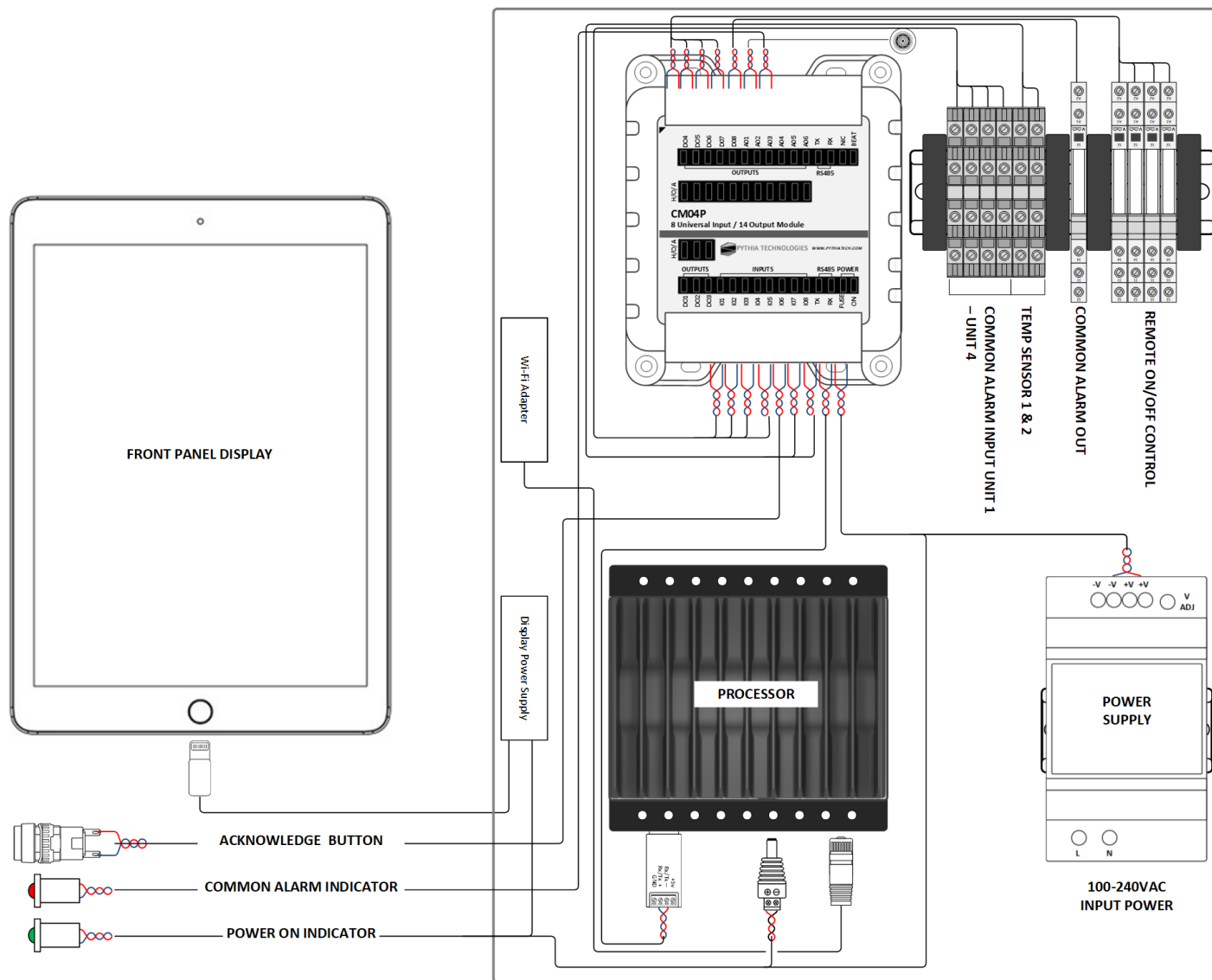
Relays are designed to handle low energy, Class 2 circuits.

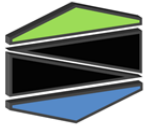
Optional Configurations:

- Enclosure: Steel @120VAC = UL Listed, ABS = non-UL rated
- Input Power: 120VAC standard, 24VAC, 48VDC
- Display: iPad (standard), LED front panel

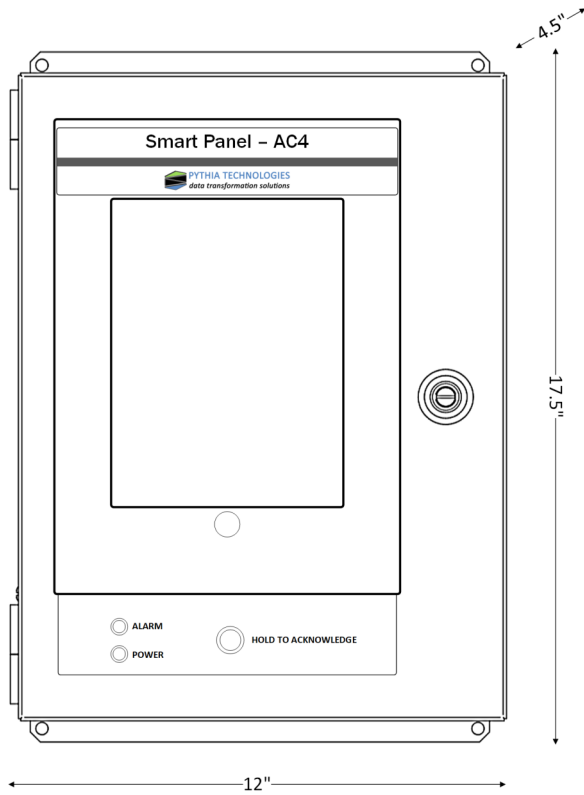


Assembly:

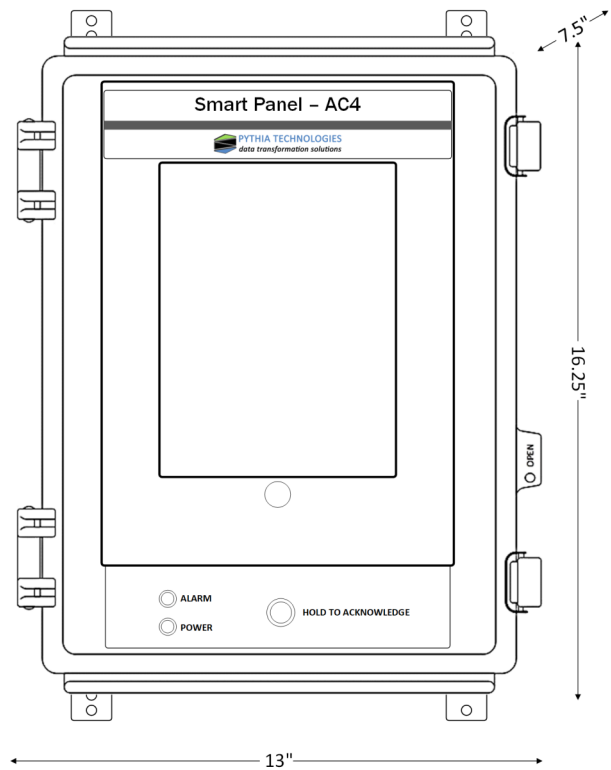




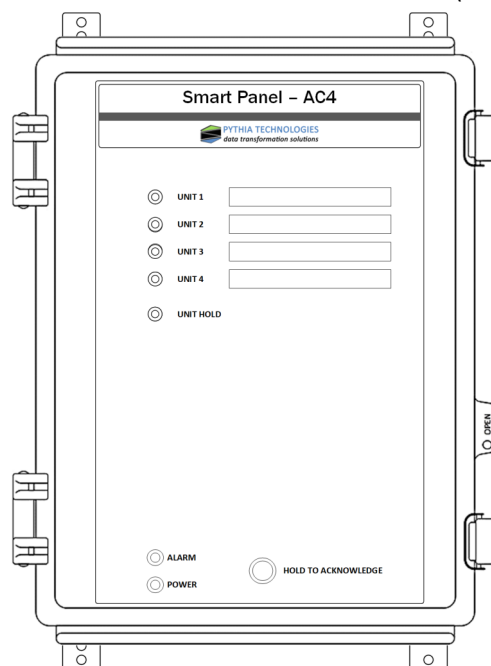
Assembly:



Smart Panel AC4 UL
(17.5" x 12" x 4.5")



Smart Panel AC4, ABS
(16.25" x 13" x 7.5")



Smart Panel AC4
LED version

SPECIFICATIONS

Maximum number of monitored devices	4
Maximum number of groups	2
Auto Sequencing	Yes (User defined: Day of Month, Day of Week, Number of Days)
Failover	Yes User may disable this function.
Staging	Yes User may disable this function. Sensors Type II 10K, 0-5VDC, 0-10VDC
Staging levels	4 levels
Web Capable	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
Summary Alarm Input	Dry-Contact, Volt free Sensing SPAC4 sourced (500ft max with 18AWG wiring)
Output Control Relay (NO, NC contacts)	Contact Rating: Designed for Class 2 circuits 100VA max (500ft max with 18AWG wiring)
Common Alarm Output (NO, NC contacts)	Contact Rating: Designed for Class 2 circuits 100VA max (500ft max with 18AWG wiring)
Environment	NEMA Type I enclosure, indoor use only
Operating Temperatures	0C to +35C / 32F to 95F(inside enclosure)
Relative Humidity	10 to 95%, non-condensing
Power	120VAC Hardwired (UPS PROTECTED PREFERRED), 40 Watts Max (24VAC, 48VDC options available)
Mounting	Surface mount, thru-hole flange
Size / Weight	UL = 17.5" (L) x 12" (W) x 4" (H) , ABS = 16.35" (L) x 13" (W) x 7.5" (H) @ 20lbs (max).

Wire Specifications

Ethernet / IP	Standard CAT5/6 (300ft max)
Dry-Contact Summary Alarm Input	18 AWG, stranded, unshielded (1-pair, 500 ft max) Belden 9740 / 89740
Output Relay to Remote Start / Stop	18 AWG, stranded, unshielded (1-pair, 500 ft max) Belden 9740 / 89740

Ordering (Please call for alternate assembly pricing)

SPAC4-UL (Assembly with touch panel display and steel enclosure, UL508A listed)

SPAC4 (Assembly with touch panel display and ABS enclosure)

* See www.pythiatech.com for all available models and pricing



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