

PT400

Stationary Generator Monitoring System

INSTALLATION INSTRUCTIONS



⚠ PLEASE READ ALL INSTRUCTIONS PRIOR TO INSTALLATION ⚠

STANDARD MONITORING KIT INCLUDES:

- PT400 Monitor
- PT400 I/O Harness
- PT400 Power Harness
- High Gain 8db Cellular Antenna
- Installation Hardware
- Input Configuration Data Sheet – Please refer to this yellow sheet for proper harness wiring.
- Optional: Accessory Kit(s)

PLANNING THE INSTALLATION:

The monitoring unit should be installed and mounted inside the generator enclosure on a non-vibrating portion of the unit. The cellular antenna will be mounted outside and on top of the generator enclosure. Plan for proper routing of the harness leads and coax cable prior to installing the monitor.

⚠ If you are unsure on how to install the monitor to a particular control panel, please contact Power Telematics Install Support for appropriate guides and instructions, 678-992-5501, Press 3 for Install Support.

Standard precautions should be taken prior to installing the monitoring unit. At a minimum:

- Only knowledgeable and qualified personnel should attempt to install this system.
- Remove the main fuse in the generator control panel.
- Remove any fuses and/or disconnect AC power to the generator from the ATS (if applicable).
- Remove/disconnect any other power source to the generator.
- Proper Lock Out/Tag Out procedures should be followed.

MONITOR INSTALLATION:

1. Mounting the Monitor Bracket & Antenna

Once you have found a spot to mount the monitor, use the self-tapping screws supplied with the unit and place the monitor at a height so that the harness leads “hang down” to create a “moisture drip loop” to prevent moisture intrusion into the connectors on the monitor. Snap the monitor to the bracket and then connect the cellular antenna to the monitor and mount the antenna on top of the generator enclosure. The cellular antenna is magnetically mounted. If the enclosure is not magnetic, a 3M adhesive disk is included for easy mounting.

2. Battery Lead Connections – Red & Black Wires

The PT400 power harness includes a 96” **RED** Battery Positive (+) and **BLACK** Battery Negative (-) lead with loose ring terminals. Connect the power leads directly to the engine battery. Note: The monitor can receive 7-30VDC.

3. Plug in the Monitor

With the battery leads hooked up, we want to power up the monitor. Connect the power harness to the monitor. The **ORANGE** light (cell) will flash intermittently until the boot up and programming update sequence is complete, then will become solid when it is fully connected.

4. Ignition Wire Connection – Blue Wire

Connect the **BLUE** wire on the power harness either onto the fuel solenoid or engine run relay connection terminal, to an appropriate terminal on the generator controller, or by splicing onto the fuel solenoid power lead (red quick splice connector supplied). This lead requires a positive (+) 12/24VDC supplied to it only when the engine is running.

5. Digital Inputs – White Multicolored Wires on the I/O Harness

The PT400 I/O harness has seven (7) **WHITE Multicolored** digital inputs and seven (7) **BLACK** ground leads. The digital inputs are used to signal a contact closing/opening to the monitor to send the event to the Power Link platform. Refer to the Input Configuration Data Sheet (yellow paper) to see how this monitor is configured.

 If you have any questions about the digital input installation or are wiring differently than the Input Configuration Data Sheet, call Power Telematics Install Support for assistance, 678-992-5501, Press 3 for Install Support.

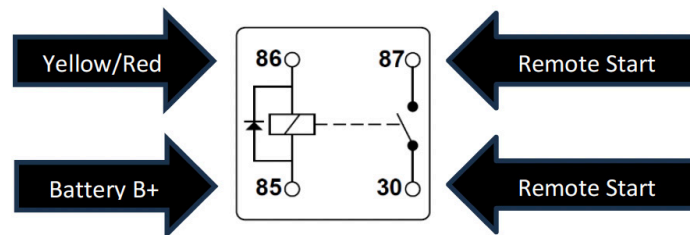
6. Optional Installation Wires:

Analog ADC1 Input – Green Multicolored Wires on the Power & I/O Harnesses

The PT400 has one (1) **GREEN** Analog Input on the Power Harness and three (3) on the I/O harness used for a variety of custom applications, though is typically used with the PTK-USFS Ultrasonic Fuel Level Sensor Kit.

Relay Driver Outputs – Yellow Multicolored Wires on the I/O Harness

There are five (5) **YELLOW** Multicolored Relay Driver Outputs that are available. Output Lead #1 (**YELLOW/RED** wire) is used for Remote Start/Stop by providing a ground path to drive a 12VDC or 24VDC relay or close an auto-start contact. Output Lead #0, #2-4 can be custom configured to operate a relay for various applications. Call Power Telematics Install Support for more details 678-992-5501, press 3).



7. Monitor Testing & Set Up with Power Telematics

With the monitor powered up and harness wires installed, please **call Power Telematics Install Support (678-992-5501, press 3)** for testing. Our install team will confirm the set up is correct and test the following conditions:

- Battery Voltage
- Cell Signal Strength
- Generator Run/Stop
- Digital Input Lead Connections
- Optional Accessory Kits

Power Telematics Install Support also offers Power Link portal set up. Our team can go ahead and activate alerts and set up customer information. If you would like our team to do so, please have this information available:

- Customer Name
- Customer Address
- Customer Contact Name, Phone & Email (for alert notifications)