

# PTM2800

## Mobile Generator and Trailer Tracking System



The **PTM2800** is a simple and cost effective solution for tracking the location and operation of a mobile generator, load bank trailer or cargo trailer. This unit includes an integral 144" harness, has two (2) additional digital inputs, one (1) ADC input, and can monitor the primary operational conditions of the generator as well as the location.



### Standard Unit Includes

- **PTM2800** Monitor – Fully Configured & Scripted
- IP66 Sealed Outdoor Weatherproof Enclosure
- Internal Cellular & GPS Antenna
- Wiring Harness Internal to Unit
- Internal 5.2Ah Lithium Ion Battery
- 2 Digital Inputs
- 1 ADC Input
- 1 Relay Driver Outputs
- 7-32VDC Power
- Cellular Carrier Activation
- Over-The-Air Unit Configuration and Updates
- Generator On (Running)/Off (Stopped)
- Engine Battery Voltage Monitor with Low Battery Alarm
- Run Time Alerts at Programmable Intervals
- Remote Start Relay Driver Output (Customer Furnished Relay)
- GPS Location Tracking
- Geo Fencing Capabilities
- Towing Speed Tracking

### Input Configuration

The **PTM Series** of monitoring and tracking systems are **UNIVERSAL** to all generator and trailer tracking applications. The available inputs can be configured and labeled for any output condition that these are connected to. Typically, there are relay outputs available on the generator, some may even be programmable. The **PTM Series** of monitoring systems allow you to cost effectively utilize available output contacts on the generator to monitor critical alarms and conditions.

All **PTM Series** of monitoring and tracking systems include a "Generator On/Off" engine run signal and a battery voltage monitor with low battery alarm. The **PTM Series** monitors also log the run time of the generator and can provide alerts if the generator has been running for a specific period of time.

The **PTM2800** monitoring and tracking system includes **two (2)** additional digital inputs that can be used to monitor any condition that is available from the generator outputs or from any of the optional accessory kits.

### User Interface: Power Link



Power Link is the most versatile and comprehensive user interface on the market. It is designed for generator service organizations to monitor and track customer equipment and service technicians all in one place. All monitoring systems include a personalized application portal and provide extensive, customizable alerts and reports.

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### Digital Inputs (2 Available)

The monitor programming is completely configurable and based on the inputs selected. When utilizing available output contacts on the generator, the monitoring system is able to be configured for those alarms and conditions. There are also optional accessory kits available that can be used to sense the availability of **Utility Power Voltage** (Utility Power On/Off), **Generator Output Voltage** (Generator Breaker Open/Closed) and **Generator Current** (On Generator Power).

The **PTM2800** digital inputs are programmable with a high or low bias and can be used with any output contact available on the generator controller.

### Utility Voltage Sensing Kit

Two types of kits are offered for Utility Voltage Sensing to log and report the events of "Utility Power On/Off." The PTK-UVD kit is a voltage detection sensor suitable for any AC voltage and connects on to a conductor to determine if AC voltage is present or not. The PTK-UVR kits include an AC voltage sensing relay and connection harness and come in voltage configurations of 120V, 208V, 240V, and 277V.

### Generator Voltage Sensing Kit

The PTK-GVD kit is a voltage detection sensor suitable for any AC voltage and connects on to an output conductor on the output side of the generator breaker to determine if AC voltage is present or not when the generator is running. This kit is used to log and report the event of "Generator Breaker Open." When used in conjunction with a Utility Voltage Sensing Kit, the condition of "Site Without Power" is reported when no voltage is present from either the Utility Source or Generator.

### Generator Current Sensing Kit

The PTK-GCS kit includes a split core current sensing switch that clamps around one of the generator output conductors or a stator lead to determine if current is present from the generator. This kit is used to log and report the conditions of "On Generator Power" and "On Utility Power."

### ADC Input (1 Available)

The **PTM2800** has one (1) ADC inputs available for a variety of uses. ADC inputs are typically used for detecting a generator fault alarm when connected to an alarm horn or fault lamp when a common fault alarm output is not available or used with an external fuel level sensor when a low fuel level output contact is not available.

### PTM2800 Specifications

**Internal Cellular & GPS Antenna**

**Integral 144 Connection Harness**

**Temperature:** -30° to 75° C (operating)

**Humidity:** 95%RH @ 50° C non-condensing

**Shock and Vibration:** U.S. Military Standards 202G and 810F, SAE J1455

**EMC/EMI:** SAE J1113; FCC-Part 15B; Industry Canada

**Operating Voltage:** 7-32 VDC

**Dimensions:** 4.46 x 3.15 x 1.55", (115.89 x 80.12 x 40.12mm)

**Weight:** 13.8 oz, (391 g)

**Comprehensive I/O:**

- Digital Inputs: 2 programmable bias
- Digital Output: 1 open collector (150mA)
- Analog Inputs: 1 external ADC and 1 internal VCC monitor (battery voltage monitor)

**Status LEDs:** GPS and cellular

**Mount:** Screw Mount