PT 7000

Heavy Equipment Management

Comprehensive monitoring and control for heavy equipment used in the construction, mining, rail and utility industries.

As part of a comprehensive telematics solution that includes sensors, connectivity and applications, the PT 7000 gives customers complete visibility of their heavy equipment fleet and allows them to manage their operations more effectively by enabling access to real-time data and analytics.

Available as a cellular or dual-mode satellite-cellular version.

Two-way communications

Receive asset status updates and engine alerts, configure reporting intervals, request asset position and more. A satellite connectivity option is available for critical applications to ensure alarm delivery and response.

Alarms and notifications

Receive real-time alarms when specific conditions are detected or thresholds are exceeded — an asset has been turned on, an engine reading has exceeded a threshold, an asset entered or exited a geofence, low oil pressure is detected and more.

Access to key metrics and operational data

The PT 7000 provides accurate status and position information along with key operational metrics so OEMs, dealers and end users can proactively manage their fleet anywhere in the world.

By leveraging valuable equipment utilization and maintenance reports, customers know where their equipment is, if it's productive or needs maintenance, if oil pressure is within limits and how it's being used in order to better allocate resources and improve operational efficiency.

In addition, equipment alerts including unauthorized movement or out-of-spec sensor readings such as loss of oil pressure or high coolant temperature can be quickly communicated to a mobile device to ensure a timely response.

Asset health monitoring for preventative maintenance

Comprehensive fuel management

Event-based alarms

Remote or local wireless configuration using smart device

Onboard geofences

Small and rugged enclosure

Communications
Cellular with optional satellite

Alert delivery time
30 seconds

Poll response time
2-3 minutes

Reporting
- Interval Position
- Motion Start/Stop
- Condition-based
  - » *Fault codes*
  - » *Engine/Idle hours*
  - » *Fuel consumption*
  - » *Battery voltage*
  - » *Antenna connect/disconnect*
  - » *Geofence*
- Pre-defined event triggers

Device (Re)Configuration
- Remote firmware updates via cellular
- Remote device configuration updates via cellular/satellite
- Local device configuration wirelessly through smart device

Power
- 9V - 32V DC input
- Backup battery

Interfaces
- Digital inputs: 4
- Digital outputs: 2 pull-up, 2 pull-down
- Analog inputs: 4
- 1(/2) CAN/J1939 bus ports, 2(/1) Serial ports
- LED
- BLE (Bluetooth Low Energy)

Operational temperature range
- -40°C to +85°C

Dimensions
- 7.5”x 4.3”x1.5”

Environmental/Mechanical
- Polycarbonate; IP67 rated
- MIL STD 810, SAE J1455
- Integrated cable management
- Color coded antenna connections with strain relief

Certifications
- FCC, IC, CE
- RoHS compliant

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ORBCOMM Inc. (Nasdaq: ORBC) is a leading global provider of Machine-to-Machine (M2M) communication solutions and the only commercial satellite network dedicated to M2M. ORBCOMM’s unique combination of global satellite, cellular and dual-mode network connectivity, hardware, web reporting applications and software is the M2M industry’s most complete service offering. Our solutions are designed to remotely track, monitor, and control fixed and mobile assets in core vertical markets including transportation & distribution, heavy equipment, industrial fixed assets, oil & gas, maritime and government.

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