

## PRO-400

### Cellular-based telematics for driver safety and fleet management applications

The versatile Pro-400 helps fleet managers improve driver safety, enhance productivity and ensure compliance.



ORBCOMM's Pro-400 monitors driver behaviour and alerts drivers and managers when actions that may compromise safety are detected. With state-of-the-art coaching technology, the Pro-400 talks to drivers, telling them when they are speeding, driving aggressively or not wearing a seat belt to help them develop better driving habits.

The Pro-400 is used with a mobile app and a cloud-based application as part of a comprehensive solution. In addition to in-cab coaching, the solution sends data to the application, allowing managers to receive alerts and generate reports to track driver performance, fleet status and productivity, as well as to ensure compliance with regulations.

#### Dual-mode connectivity

ORBCOMM's Pro-400 delivers connectivity over the 2G/3G cellular network with optional backup satellite for uninterrupted communications and uncompromised driver safety, even in some of the most remote regions of the world.

#### Comprehensive functionality

Loaded with rich features, the Pro-400 supports Wi-Fi connectivity as well as I/Os to facilitate integration with sensors, mobile applications and third-party systems such as driver ID, panic button, driver fatigue monitoring systems and lane departure and collision avoidance solutions. A built-in GPS and accelerometer enable dot-on the-map location tracking, movement-based reporting and accident detection and reconstruction.

#### Versatile

The Pro-400 solution supports OBDII and J-Bus connections and can be used with light to heavy-duty commercial vehicles.

#### Mobile app

Our easy-to-use mobile app allows drivers to quickly access information, including performance, compliance, weather and traffic. A comprehensive Hours of Service (HOS) dashboard helps drivers track and log hours of service, change duty status, monitor miles driven and more. Drivers can also log vehicle inspections, capture fuel data, submit electronic forms and add other drivers to the vehicle.

**Out-of-the box driver safety and fleet management**

**Comprehensive mobile and cloud based application**

**Cellular communications with optional backup satellite**

**Light to heavy duty vehicle support**



**Dimensions**

- 12.7cm x 10.16cm x 2.54cm

**Cellular Communication**

- 2G/3G  
EDGE, GSM, UMTS, HSPA, GPRS

**Satellite Communication (Optional with satellite modem)**

- Satellite service: Two-way, Global, IsatData Pro
- From-mobile message: 6,400 bytes
- To-mobile message: 10,000 bytes
- Typical latency: <15 sec, 100 bytes
- Elevation angle: +20° to +90° (remote antenna); -15° to +90° (low elevation antenna)
- Frequency: Rx: 1525.0 to 1559.0 MHz; Tx: 1626.5 to 1660.5 MHz
- EIRP: <7.0 dBW

**GPS**

- 32 Channel GPS/AGPS

**Wi-Fi**

- 802.11 b/g/n Wifi Hotspot mode or Wi-Fi client mode

**NFC**

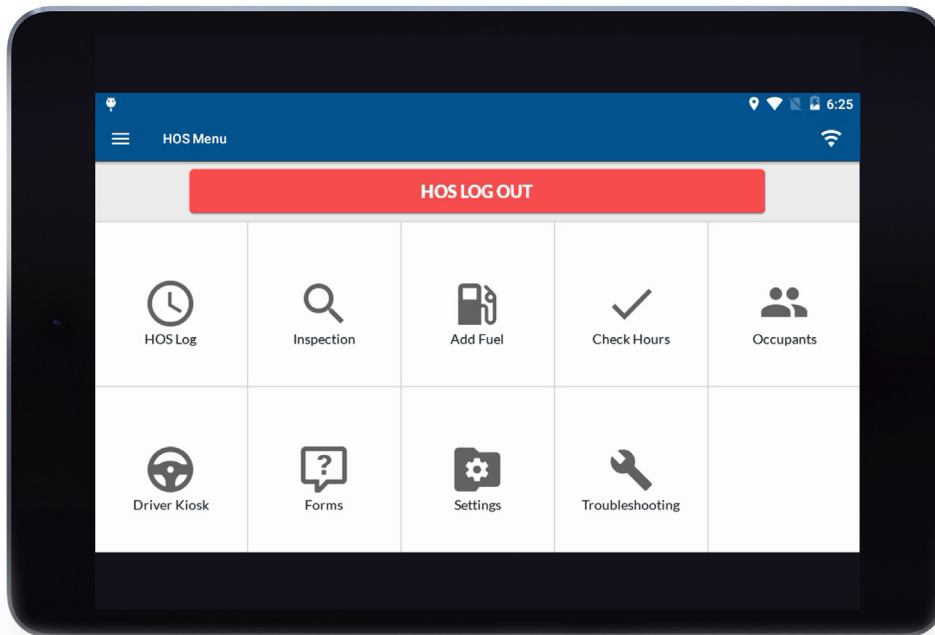
- RFID ISO, 15693, ISO 18000-3 support

**External interfaces**

- 10 Inputs/outputs. Pre-configured I/Os: ignition, ignition detect, seatbelt, seatbelt cable detect, panic button, battery voltage detect, vehicle Bus cable type detect
- 7 UARTS RS232/RS485. Pre-configured: satellite modem, fuel sensor, mobileye, trailer tracker
- 2 USB connections (USB 2.0)
- Accelerometer

**Vehicle interfaces**

- CAN: 2 channels supporting SAE J1939, ISO15765 high, medium and single wire CAN protocols
- SAE J1708: 1 channel
- Supported vehicle connections:
  - OBDII (J1962)
  - J1939 Volvo 16 pin connection (purple)
  - J1939 Type II connector (green)
  - J-Bus Deutsch 9 Pin and 6 Pin connectors
  - 3 wire install (power ground ignition)
  - 2 wire install (power ground)



**Electrical**

- 12-36 volt DC:
  - Average amperage draw in normal state is 350mA – 2A
  - Low power mode 7mA
- SuperCap
  - Allows 20 seconds of full operation at full charge
- Device Power On:
  - Determined by vibration/movement of device
- Boot up time:
  - 45 seconds from vibration/movement of the device
- Real Time Clock
  - Lithium-ion battery with up to a five-year life span.

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 Driver Interface: Connect Mobile App

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