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TrimTrac Pro Locator

What is the TrimTrac Pro locator?

The Trimble® TrimTrac® Pro locator is an asset management device that helps construction companies and equipment rental companies monitor the location and use of their equipment. By incorporating GPS location with wireless cellular-based telematics, customers can remotely monitor runtime hours and geographical movement of the assets on which the TrimTrac Pro device is installed.

The TrimTrac Pro locator is lightweight 275 g (9.7 oz) and compact 14.75 cm × 7.6 cm × 3.5 cm (5.8 in × 3 in × 1.4 in). It provides key asset information to the Trimble Construction Manager software, which stores that data and makes it available for viewing using any Internet-enabled computer, for the purpose of improving equipment productivity and utilization.

What assets are recommended for use with the TrimTrac Pro locator?

Technically, you can install the TrimTrac Pro device on any asset with a 12 V or 24 V power source. However, Trimble recommends the TrimTrac Pro device for use on light machine, mobile and portable-type assets, including:

- Skid loader
- Backhoe
- Generator
- Aerial lift
- Air compressor
- Light tower
- Water pump
- Utility trailer
- Quad ATV
- Rental equipment

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How does the TrimTrac Pro locator work?

1. Non-Active/Idle State – When the TrimTrac Pro device is connected to an asset that is inactive (asset ignition-switched source is off and no motion is detected), it stays in idle state, reporting only once per day. The TrimTrac Pro device uses the asset's power source, but battery drain is negligible (<10 ma/day in idle state). The on-board runtime meter does not accumulate while the TrimTrac Pro device is in idle state.
2. Active State – The TrimTrac Pro device goes into active state when the ignition-switched source is turned on **or** when motion is detected. The TrimTrac Pro device stays in an active state until 30 minutes after the ignition-switched source is turned off **or** the last motion detection.
3. While in active state, the TrimTrac Pro device reports every 30 minutes (note that 30 minutes may vary slightly based on GPS and cellular coverage). The runtime meter only accumulates when the ignition-switched source is turned on. When motion is detected and the ignition-switched source is off, the TrimTrac Pro device becomes active, but the runtime meter does not accumulate.
4. If the external power source connected to the TrimTrac Pro device is interrupted or disconnected, the TrimTrac Pro device becomes active and reports every 30 minutes until the backup battery drains (approximately 48 hours) or the external power source is reconnected.

What are the key features of the TrimTrac Pro locator?

- Reliable, proven Trimble GPS technology
- Compact form factor
- Robust, water-resistant housing
- Simple, three-wire installation
- GPRS modem for worldwide coverage
- Internal GPS antenna
- Optional external GPS antenna allows for more discrete hardware mounting option
- 48-hour battery backup and external power loss alert
- Accurate motion-based and ignition-based reporting under a variety of conditions
- Exception alert reporting

What service plans are available for the TrimTrac Pro locator?

The TrimTrac Pro device is supported by a single service plan, called the Preventative Maintenance (PM) monthly plan. Here are the plan's highlights:

1. When the TrimTrac Pro device reports, it reports the position and the runtime meter values. Values are collected every 30 minutes when the device is active and every 24 hours when the device is inactive.

2. The Trimble Construction Manager software accumulates and stores the most recent 90 days of data from the TrimTrac Pro device. In addition, if the TrimTrac Pro device moves out of wireless coverage areas, the device can store the most recent 14 days of data (note that 14 days may vary based on active state versus idle state ratios), then report that data to the Trimble Construction Manager software when GPRS coverage becomes available.
3. The Trimble Construction Manager software uses the data from the TrimTrac Pro locator device to show asset positions superimposed on street maps and satellite photos. Data is also used to populate 10 standard reports and four standard charts, including scheduled maintenance reporting. In addition, the data can be used to develop dashboard views for monitoring multiple sets of data.
4. If the external power source is interrupted or disconnected, the Trimble Construction Manager software generates an interrupted power message. If the TrimTrac Pro device does not report within the next 24 hours, the Trimble Construction Manager software generates a stopped reporting message.

What if my jobsites are out of a wireless network coverage area?

If the TrimTrac Pro device moves out of wireless coverage areas, the unit can store the most recent 14 days of data (may vary based on active state versus idle state ratios) and then report that data to the Trimble Construction Manager software when GPRS coverage becomes available.

Are there any accessories for the TrimTrac Pro device?

- An optional external GPS antenna that can be used when the TrimTrac Pro device needs to be installed in a “transmission limiting” space (e.g., a space that is substantially enclosed in metal).
- A (standard) metal bracket for use with more permanent types of installations.
- An optional plastic bracket, with snap-in housing, for less permanent types of installations.

How is the TrimTrac Pro locator installed on an asset?

The TrimTrac Pro device should be installed on an asset so that the GPS and telematic receivers can easily collect and transmit location and other information. The recommended location is with a clear view of the sky. For example, you should not install the device in a glove box, trunk or boot of a vehicle, or any other places that are fully enclosed by metal.

You should connect the Vehicle Adapter Module (VAM) to the asset before you insert the VAM into the base of the TrimTrac Pro device. The red and black wires of the VAM are connected to the power source of the asset, while the yellow wire is connected to an ignition-switched source. For safety, you should fit both the yellow and red wires with a 1 Amp inline fuse. After connecting the VAM to the asset, it is then inserted in the TrimTrac Pro device’s base and mounted to a safe place on the asset with the standard metal bracket (included). An optional “quick release” plastic bracket is available for speedier installation and removal. The TrimTrac Pro device can be installed on 12 volt and 24 volt powered assets.

Does the backup battery require any maintenance?

If the TrimTrac Pro device is not connected to an external power source for a prolonged period, the internal standby battery should be recharged at least once every three months. Unless the battery has

been subjected to a deep discharge, the internal standby battery will reach its maximum charge within three hours after external power has been applied to the Vehicle Adapter Module. Fully discharging the standby battery decreases the battery life in terms of the number of available recharge cycles and the maximum charge. Charging of a fully discharged standby battery may take up to 24 hours.

What physical orientation should be used when installing the TrimTrac Pro locator device?

Unless used with the optional external GPS antenna, you should place the TrimTrac Pro locator in a near horizontal position with the TrimTrac logo facing upward toward the sky. If used with the optional external GPS antenna, then you should place the antenna element in a near horizontal position facing upward toward the sky.

What is the TrimTrac Pro locator's warranty period?

The TrimTrac Pro device includes a one-year limited, standard factory warranty.

Is the TrimTrac Pro locator safe to use in rugged environments?

The TrimTrac Pro device is compliant with the IP55 environmental specification, *except* when an external antenna is connected to the device.

How can I order the TrimTrac Pro locator?

Contact your local authorized Trimble distributor to place an order or to find out more about the product. If you do not have a local distributor, visit www.trimble.com to find one. You may also email TCMsales@trimble.com.

How can I find out more?

Contact your local authorized Trimble distributor or visit the Construction Asset Management web page on www.trimble.com.