

SAT-202

Satellite Terminal

The SAT-202 satellite terminal from Honeywell Global Tracking is a multi-purpose satellite terminal for tracking and monitoring high-value assets like vehicles, vessels, cargo and personnel.

Once assets have been equipped with a SAT-202 terminal and deployed in the field, the SAT-202 automatically selects the most appropriate satellite and regularly transmits its location and any additional message data via secure systems.

The SAT-202 terminal can be used in all environments and is favored in remote regions where terrestrial communication cannot be relied upon. Compact in size, the SAT-202 provides global coverage and can be programmed to send and receive customized data from external sensors – including temperature, humidity, vibration, and shock.

Like many of Honeywell Global Tracking's terminals, the SAT-202 uses the Inmarsat constellation of satellites and the IsatM2M standard. This connectivity method delivers an affordable and reliable direct-to-desktop information service with fast and easy-to-use message handling.

The SAT-202 terminal has three fully configurable inputs/outputs for sensor monitoring, and one open drain output suitable for driving relays and other indicators. The data-logging function includes GPS positions, transmissions and data for more than 6,500 entries which are accessible locally via the serial port. All transmissions are logged with a record of the time the message was created and if applicable, when it was transmitted.



Features

- **Global Coverage:** Offers secure satellite connectivity worldwide
- **Inmarsat and GPS Connectivity:** Tracks, monitors and communicates with mobile assets anywhere in the world
- **Affordable and Reliable:** Enables field-proven and cost-effective tracking solutions for a wide range of applications
- **Flexible Mapping:** Facilitates viewing of assets using Google and Bing maps in a standard browser, or integrates data feeds into custom enterprise resource planning (ERP) solutions
- **Multiple I/O Ports:** Allows connected external sensors to report additional data, e.g., speed, tire pressure, and fuel consumption; ideal for fleet management applications.
- **Optional Alert Button:** Convenient in-vehicle button allows drivers to immediately warn others of dangers

SAT-202 Technical Specifications

| Physical | |
|-----------------------------|---|
| Dimensions | 112mm x 46mm (4.4" x 1.8") |
| Weight | 350g, (12.3 oz) (excluding cable) |
| Connector | 12-way plug |
| Environmental | |
| Operating Temperature | -40°C to +70°C (-40°F to +158°F) |
| Humidity | ≤ 95% @ +40°C (+104°F) |
| Vibration & Shock | Meets Inmarsat-D & EN60945 requirements |
| IP Rating | IP66 |
| Power | |
| Sleep | 0.75mW |
| Receive | 1W (incl. GPS) |
| Slotted Receive | 50mW (effective continuous receive power) |
| Transmit | 6W |
| Power Supply Voltage | 9.6V to 32V 'smoothed' DC |
| Interfaces | |
| Serial Interface | Asynchronous serial RS232 |
| Baud Rate | 4800 or 9600 bps |
| Parity/Data Bits/Stop Bits | N, 8, 1 |
| Configurable Inputs/Outputs | Three |
| Open Drain Output | 250mA max. sink current |
| Satellite Connectivity | |
| Transmitter | EIRP: 0-9dBW Tx Burst Duration: 2s or 8s (auto select) Message length: Standard burst up to 84 bits, Double burst up to 170 bits |
| Receiver | G/T: ≥-25dB/K at EL = 30° User data rate: ~36 bits per second Message length: Up to 800 bits |
| Elevation Angle | 0° - 90° |
| Frequency Range | Transmit: 1626.5-1660.5 MHz Receive: 1525.0-1559.0 MHz GPS: 1575.42 ± 1.0 MHz |
| Message Latencies | Poll/Response: up to 1 minute (typically less) Time to first transmission: up to 45 seconds Forward message delivery: up to 45 seconds Return message delivery: up to 20 seconds |
| GPS | Channels: 50 Typical time to first fix: Cold Start <29 seconds, Hot Start <1s (GPS was off for less than 2 hours) Typical position accuracy (SA Off): 2.5m (CEP, 2D) |
| Capabilities/Applications | |
| Custom Features | Advanced scripting capabilities enable custom features and functionality |
| Geofencing | Alert areas, Safe Areas, Route corridors, Curfews, Waypoints, Checkpoints, Overdue and more. |
| Third-party Connectivity | Can be integrated with existing ERP systems |
| Certifications | |
| Inmarsat Type Approval | Yes |
| FCC | Yes |
| CE | Yes |
| EN60945 | Yes |

For more information:

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