

# SAT-401

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## Next-Generation Satellite Terminal

The SAT-401 satellite terminal from Honeywell Global Tracking is a next-generation multi-purpose satellite terminal for tracking and monitoring high-value assets like vehicles, vessels, and cargo containers.

Once an asset has been equipped with a SAT-401 terminal and deployed in the field, the device automatically selects the most appropriate satellite and transmits its location and any additional message data via secure systems.

The SAT-401 terminal is powered by the asset and can be used in virtually all environments. It is favored in remote regions where terrestrial communication cannot be relied upon. Even more compact in size than its predecessor, the SAT-401 provides global coverage and can be programmed to send and receive customized data from internal and external sensors – including temperature, humidity, vibration and shock.

Like many of Honeywell Global Tracking's terminals, the SAT-401 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-401 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 up to 20,000 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.



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## 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:** Field-proven and cost-effective tracking solution for a wide range of applications
- **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 danger

# SAT-401, SAT-401C & SAT-401E Technical Specifications

Physical	
Dimensions	112mm x 37mm (4.4" x 1.5")
Weight	220g (12.0 oz) (excluding cable)
Connector	12-way Bulgin
Environmental	
Operating Temperature	-40°C to +70°C (-40°F to +158°F)
Humidity	≤ 95% @ +40°C (+104°F)
Vibration & Shock	Meets Inmarsat-D requirements
IP Rating	IP66
Power (Typical)	
Sleep	1.5 mW
Receive	1.5W (incl. GPS)
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 85 bits, Double burst up to 170 bits
Receiver	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 This product operates in the L-band frequency spectrum, as defined by IEEE standard 521-1984
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 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. (Via ViewPoint)
Third-Party Connectivity	Can be integrated with existing ERP systems
Certifications	
Inmarsat Type Approval	Yes
FCC	Yes
CE	Yes
ANATEL	Yes
ICASA	Pending

## For more information:

[www.gt.honeywell.com](http://www.gt.honeywell.com)

## Honeywell Global Tracking

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