



Solar Powered Satellite-Managed Asset Ready Tracker

The Solar Cell Device is the next generation of industry-acclaimed product line. While operating on one of the most modern and fastest satellite networks in the world and powered by the sun, this IoT device provides excellent remote monitoring and tracking capabilities. The Device Solar's NiMH rechargeable batteries deliver 8 years of life, drastically reducing maintenance time and cost for labor and parts. It lets users intelligently configure reporting times and intervals for custom information delivery. The Solar Cell Device has unparalleled safety/device certifications including ATEX Class I Zone 0: Division 1, CSA22.2, UL60079-0, IP69K, HERO certifications, and others to meet the needs of every application.

Let the Solar Cell Device streamline your M2M operations today!



BENEFITS

- Maintenance-free device as the power of the sun recharges its batteries providing 8+ years of usable service
- Delivers reliable location reporting for assets deployed worldwide – providing security and improved efficiency for your business
- Easy to install as simple packaging requires no harnesses, external power or external antennas
- Wide range of reporting capabilities, including:
 - GPS Location reporting in 4 modes
 - Geofencing with configurable range setting
 - Stationary or In-Motion Reporting
 - Reduced Messaging & Theft Recovery Modes
 - Receives and Transmits data from external sensors
- User selectable Speed and Heading operation
- Two dry contact or wetted-voltage inputs available to manage engine run time, tank level or various alarm inputs

POTENTIAL APPLICATIONS

- Transportation: Monitor & track assets and fleet movements even in remote locations
- Oil & Gas: Aids in mobilizing & deploying high value assets in the field.
- Construction: Determine if, when & where your valuable equipment is being used
- Security: Keep track of valuable mobile assets such as rail cars, propane tanks & AgTech
- Marine: Monitor & track high value assets, such as boats, barges and containers, at the dock and off-shore
- Other industrial uses: Mining, forestry, government, fisheries, etc.

CONFIGURATION SOFTWARE

- Configuration software tool operates on a PC via serial cable
- Bluetooth interface also available for configuration and firmware updates



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TECHNICAL SPECIFICATIONS



FRONT VIEW



SIDE VIEW



BACK VIEW

OPERATING SPECIFICATIONS

DIMENSIONS	3.25 IN (H) X 7 IN (W) X 1.125 IN (D) 8.26 CM (H) X 17.78 CM (W) X 2.86 CM (D)	CERTIFICATIONS	- FCC, ISED, CE, ANATEL (PENDING) - AS/NZS CISPR 22(PENDING) - IFT (PENDING)
WEIGHT	13.5 oz/385 g With optional mounting bracket 40.57 oz. (1150 g)	INTRINSIC SAFETY CERTIFICATIONS:	- ATEX/IEC Ex ia IIC T4 Ga, AEx ia IIC T4 Ga For international Zone 0 applications, IECEx, OSHA Hazard Location Classification of Class 1, UL 60079-0, CSA 22.2 No. 60079-0, CSA 157-92 (Class1 Div1), HERO
OPERATING TEMPERATURE	-40° to +85° C**	STANDARDS	- WEEE Compliant - GMPCS-MoU - IP69K (Ingress Protection) - MIL-STD-810G for: - Immersion - Impact resistance - Salt Fog - Acidic Atmosphere - Humidity - Vibration
INPUT VOLTAGE	10 TO 48 VDC	SATELLITE TECHNOLOGY	Global LEO Satellite operation using the Simplex Data Network.
BATTERY TYPE	Built-in rechargeable NiMH batteries (non-replaceable)		

FEATURE SET

STANDARD MESSAGING

- Wake, GPS locate, transmit location, resume sleep settings
- 12 programmable sleep time-of-wake settings

INTEGRATED ACCELEROMETER

- Message on start and stop
- Engage interval override on motion for set time or while in motion

ALTERNATIVE REPORTING

- Supervisory reporting schedule triggered by alarm or motion
- Transmits GPS location on interval for programmed time or while alarm remains active

CHANGE OF LOCATION

- Theft-alert reporting based on distance moved
- Reduced messaging mode

SERIAL COMMUNICATION CAPABILITY

- User defined messages
- Serial (TTL) I/O capability to interface with remote passive and smart sensors and deliver user-defined messages
- Bluetooth interface for configuration/firmware updates

**While functional in the specified Operating Temperature Range, usage of the device above 60°C may cause RF signal degradation and decreased battery lifetime of the unit.