

DQ90 Solar power IoT Satellite Tracker



DQ90 is an easy to install, robust satellite tracker with long-life solar powered rechargeable batteries, ideal for remote tracking and monitoring in harsh, challenging environments.



- Long-term solar powered monitoring reduces maintenance costs
- Certified intrinsically safe; meets ATEX, HERO + other industry standards
- Simple installation
- User defined messages for customised reporting
- Reduced messaging mode for cost-effective satellite messaging
- Robust water and dust resistant housing, suitable for indoor and outdoor use

APPLICATIONS

- **Transportation:** Monitor & track assets and fleet movements in remote locations
- **Oil & Gas:** Supports mobilizing & deploying assets in field survey & exploration
- **Construction:** Determine if, when & where your valuable equipment is being used
- **Security:** Keep track of valuable mobile assets such as rail cars, propane tanks, agricultural plant.
- **Marine:** Monitor & track assets, such as boats, barges, pontoons and buoys, at the dock and off-shore
- **Industrial uses:** Monitor and track assets in mining, forestry, government, fisheries.

DQ90 Solar Power Satellite IoT Asset Tracker



Technical Specification

FEATURES	
Alternative reporting	Supervisory reporting schedule triggered by alarm or motion. GPS location transmitted at intervals for programmed time or while alarm remains active.
Standard Messaging	Reports GPS position at regular time intervals (programmed in initial configuration) Settings include: wake, GPS locate, transmit location, resume sleep 12 programmable time-of-wake settings.
Theft Recovery	In theft recovery mode DQ90 differentiates between authorised and unauthorised movement with theft alert reports based on the distance moved.
Reduced Messaging Mode	Reduces the cost of transmitting satellite messages by sending at a minimal message interval when the asset is either stationary or in a defined area and transmitting at a higher message interval when the asset is moving or changing location.
Geofencing	Using Duotraq's online portal, DQ90 offers unlimited geofences, allowing you to predefine geographical boundaries and receive alerts when the device enters or leaves the geo-fenced areas.
INPUTS	
External inputs	Accepts serial signals (TTL) from external inputs.
FIRMWARE	
Configuration	DQ90 is configured and updated via USB cable or Bluetooth

MECHANICAL SPECIFICATIONS	
Housing	IP68 rated housing is dust and water resistant to withstand exposure to harsh weather conditions. Fixed with screw mounts or optional stainless steel bracket.
Dimensions	D 2.86 x W 17.78 x H 8.26 cm
Weight	13.5 oz / 385g
Operating Temperature	-40°C to +85°C NOTE: DQ90 can operate in the specified Operating Temperature Range, however use above 60°C may cause RF signal degradation and reduced battery life. Certified as intrinsically safe to 65°C.
POWER	
Input Voltage	10 – 48 VDC (optional)
Batteries	Built-in non-replaceable NiMH batteries and solar panel. Typically give 8+ years of operation.
CONNECTIVITY	
Satellite	Global LEO Satellite operation using Globalstar Simplex Data Network.
CERTIFICATIONS	
Certifications	FCC, ISED (Class1, DIV1), CE, ANATEL (Pending) AS/NZs CISPR 22 (Pending) Australia, New Zealand – IFT (Pending)
Intrinsic Safety Certificates	ATEX/IEC Ex ia IIC T4 Ga for international Zone0 applications, IECEX, OSHA Hazard Location Classification of Class 1, UL 60079-0, CSA 22.2 No. 60079-0, HERO, IPC-9592a
Standards	SAE J1455; MIL STD 810; NEMA 4X/ IP68; WEEE Compliant; GMPCS-MoU