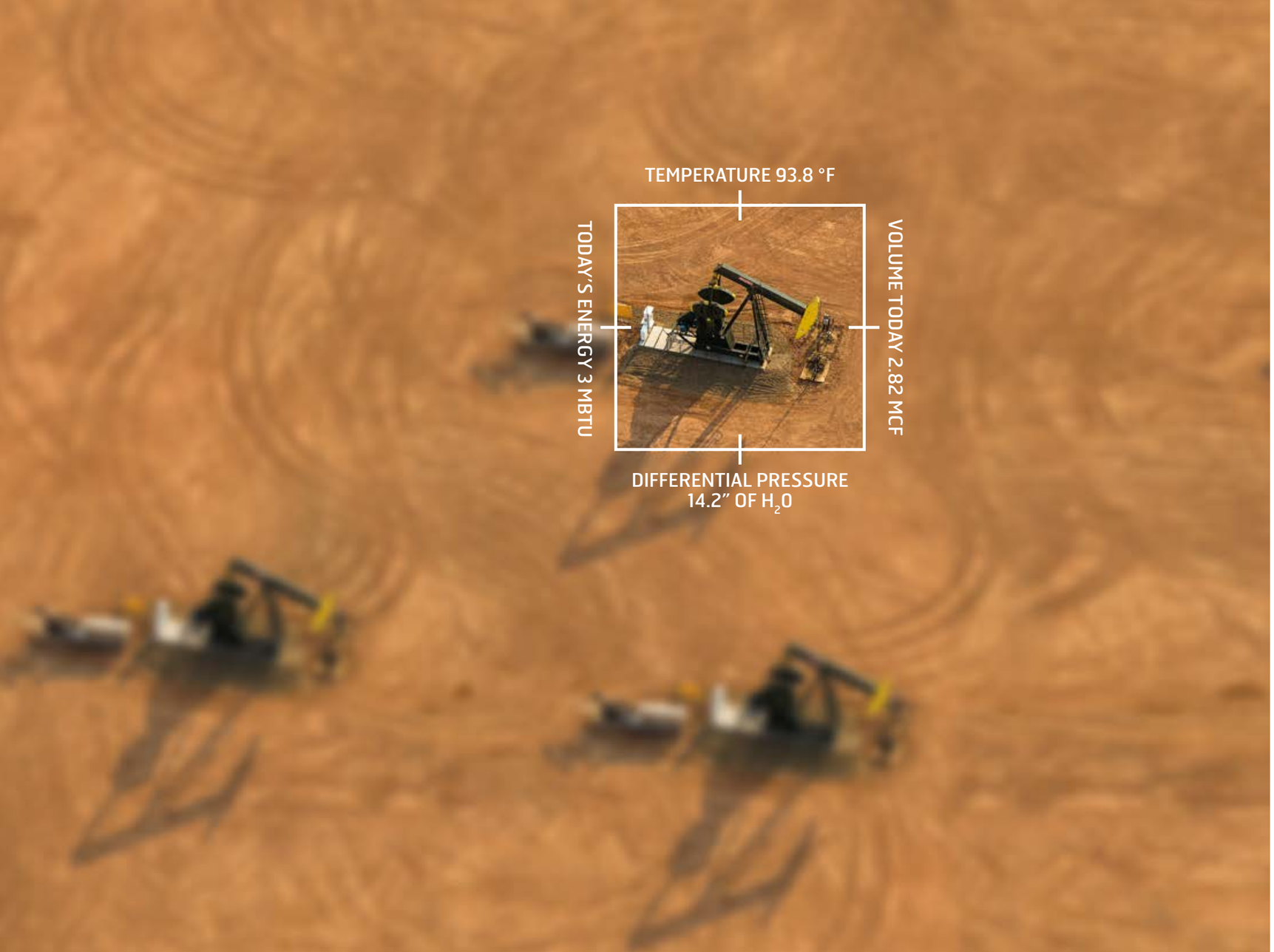
inmarsat
The mobile satellite company

IsatData Pro

Reliable, event-driven data services enable monitoring and control of assets in remote and harsh environments worldwide



Key benefits

1. Highly reliable global coverage with one device
2. Low cost technology optimised for industrial IoT/M2M
3. Easy to install, with low power consumption for long-term operation
4. Flexible device options for software and system integrators
5. Complements mobile wireless at low incremental cost including hybrid multi-network devices

The ability to locate, monitor and manage remote assets is transforming organisations in a wide range of industries. Assets often consist of equipment, cargo, or personnel that operate in remote and inhospitable environments, where maintaining reliable communications can be a significant challenge.

With IsatData Pro, organisations can gain visibility and control of remote assets to improve safety, security, and efficiency while lowering operational costs and risk. Optimised for event-driven data communications using small messages, IsatData Pro provides a rapid return on investment across a range of industrial applications. It is also easy to install and operate, and resilient in all weather.

From simple tracking and monitoring to more sophisticated telemetry, logistics and safety compliance, IsatData Pro provides mission-critical data connectivity in a compact, affordable package. Use it as a stand-alone satellite connection for truly remote assets, or mobile business continuity when coverage, events or disasters impact the availability of cellular networks.

Target markets

Transportation

- Location awareness helps manage risk and optimise operations.
- Combined with sensor and telematics alerts, companies improve security and safety of both drivers and cargo, and reduce fuel, insurance and maintenance costs.

Energy and Utilities

- Monitor and alert regarding simple parameters such as tank levels, safety shut-offs and intrusion detection with one device that simply works, worldwide.
- Demonstrate compliance with regulations for pipeline integrity and emissions.
- Improve worker safety and productivity for drivers and maintenance personnel.

Mining and Construction

- Improve operational efficiencies with better visibility of vehicles, loads and utilisation.
- Improve worker safety and productivity.
- Reduce maintenance costs of machinery.

Maritime

- Comply with sustainable fishing regulations.
- Improve catch yields and reduce fuel costs.
- Enable basic safety and crew welfare communications.
- Prevent disease and production loss in fish farms.

Environment and Agriculture

- Monitor and alert regarding quality or safety risks of critical resources such as water and forests.
- Optimise processes to improve yield and track livestock wellness.
- Track and reduce maintenance costs of machinery.

Applications

- Asset tracking
- Fleet management and telematics
- Dispatch and workflow automation (e.g. forms)
- Remote monitoring (e.g. tank level, flow, intrusion)
- Industrial automation
- Vessel Monitoring Systems (fisheries compliance)
- Electronic catch reporting
- Basic crew welfare (text messaging/email)

Features and benefits

Purpose built for M2M and operating in near real-time worldwide, IsatData Pro is a low data rate messaging service ideal for monitoring and tracking (telemetry) of remote fixed or mobile assets where battery operation is required, such as containers and gas flow metering.

Unequalled reliability and scalability

Inmarsat helps customers achieve total control and visibility of their assets, operating in conditions where cellular and other satellite services are congested, degraded or not available, and providing 99.9 percent availability across its L-band satellite network.

Return on Investment (ROI) driven connectivity

Machine-to-machine services derive value from a single global network, single operator and single device. Customers benefit from improved operating efficiencies and cost and resource savings.

Ease of use

The small, omnidirectional antenna makes installation easy and fast. One device works anywhere worldwide, without different frequency bands, SIM cards or roaming fees. Ultra-low power consumption enables battery applications that run for years maintenance-free.

Best in class performance

Data payloads up to 10 kilobytes and consistent throughput worldwide enables highly scalable and dependable applications to be developed, while keeping costs in check.

Coverage

Inmarsat's services are available worldwide, so organisations can rely on complete connectivity for their assets, wherever they're located, even if they are moving or transferred from one region to another.

Terminals

Several different terminal options provide flexibility for different applications and integration needs.

Terminal	Features
Orbcomm OGi 	Compact OEM modem module for hardware developers, includes GPS
	Serial UART with AT commands
	Antenna option for land/maritime
Skywave IDP-100 series 	OEM modem module for hardware developers, includes GPS
	Ultra-low power support
	Serial UART with AT commands
	Antenna options for land/maritime
Skywave IDP-200 series 	Rugged packaged modem complete with antenna, GPS
	Serial RS232 with AT commands
	Antenna options for land/maritime
Skywave IDP-600 series 	Rugged intelligent terminal/gateway complete with antenna, GPS and microcontroller
	Lua SDK for embedded developers
	Optional vendor-supplied software agents
	Serial ports for RTU, HMI
	GPIO for sensors and actuators
	Antenna option for land/maritime
	Class 1 Division 2 option for hazardous zones

Terminal	Features
Skywave IDP-700 series 	Hybrid satellite-cellular intelligent terminal/gateway complete with antenna, GPS and microcontroller
	2-piece (indoor + outdoor) assembly
	User-supplied 3G SIM
	Lua SDK for embedded developers
	Serial ports for RTU, HMI, OneWire
	CAN bus for vehicle telematics
	GPIO for sensors and actuators
	Antenna option for land/maritime
	Battery back-up option
Skywave IDP-800 series 	Standalone, rugged intelligent terminal/gateway complete with antenna, GPS and microcontroller
	Battery powered: replaceable or rechargeable options
	Lua SDK for embedded developers
	Serial port for RTU, HMI
	GPIO for sensors and actuators
Quake QPRO IDP 	Hybrid satellite-cellular intelligent terminal/gateway complete with antenna, GPS and microcontroller
	Ruggedized for outdoor use
	C programmable for embedded developers
	Serial ports for RTU, HMI
	CAN bus for vehicle telematics
	GPIO for sensors and actuators
	Antenna option for land/maritime

How to buy

Inmarsat services are available through our partners in more than 190 countries. Visit our website to find the right partner for your organisation.

inmarsat.com/enterprise