EMS TECHNOLOGIES

PDT-100

SATELLITE PACKET DATA TERMINAL

SPECIFICATIONS

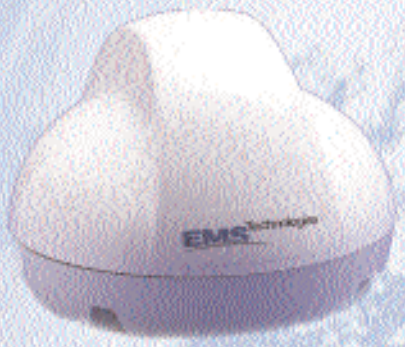
APPLICATIONS

Monitoring
- asset status
- environmental monitoring
- gas and pipeline monitoring
- pipeline flow conditions
- tank levels

Tracking
- asset tracking
- position reporting
- instant messaging

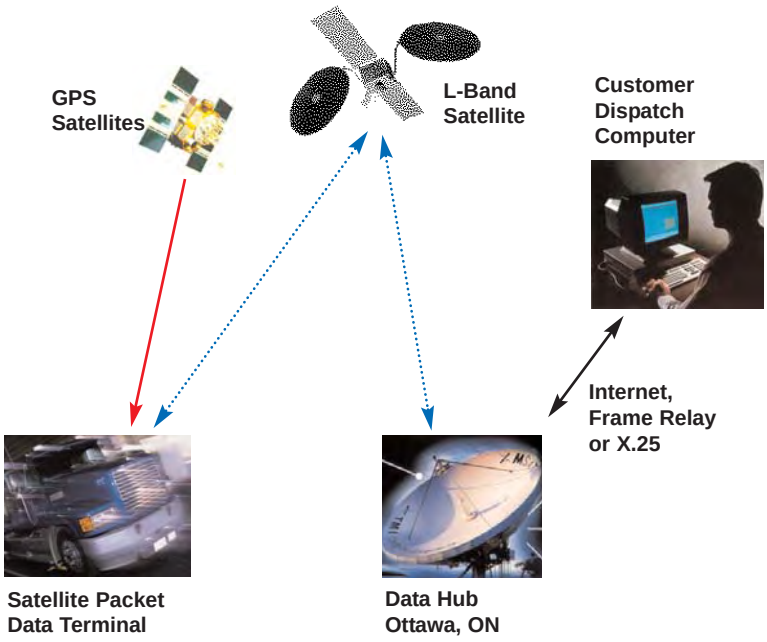
Messaging
- instant messaging for isolated staff
- real-time transaction records
- emergency resource management

GPS
- synchronized time - GMT
- Lat/Long



Satellite Coverage Area

SYSTEM BLOCK DIAGRAM



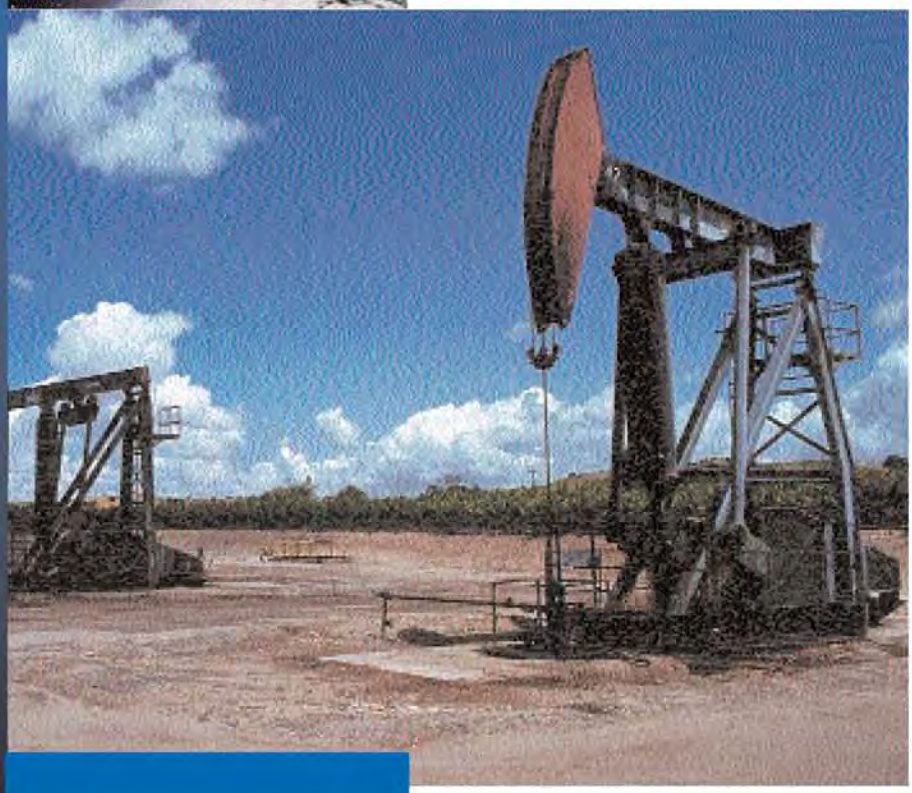
Specifications

Power	
Input Voltage	9Vdc-16Vdc, nom per SAE JI455
Receive Mode	3W (250mA)
Transmit Mode	48W for 0.5s, 10% duty cycle (4A at 12Vdc)
Interfaces	
Communications	RS-232, GSM 07.05
Mounting	3-point mount
RF	L-band (1.5GHz - 1.7GHz)
GPS	
Accuracy	± 30m
Channels	12
Data Format	NMEA 0183
Physical Characteristics	
Weight	3 lbs
Size	7.8" diameter x 5.8" high
Environmental Specifications (partial list)	
Operating Temperature	-40°C to +50°C
Storage Temperature	-55°C to +85°C
Other environmental specifications	In accordance with SAE J1455
Model Number:	**PDT-100**

E M S T E C H N O L O G I E S

PDT-100

Satellite Packet Data Terminal



TThe PDT-100 Satellite Packet Data Terminal is an affordable two-way data communications radio ideal for remote data acquisition and control anywhere in North and Central America extending up to 250 miles off the coast. Timely information reduces operating expenses, facilitates efficiency, reduces risk of alarm conditions and increases competitiveness.

The terminal has an interactive two-way messaging mode that allows real time messages to be sent by either the terminal or a host computer. It also supports Broadcast Messaging Mode which can broadcast messages to all radios within pre-defined groups simultaneously. The PDT-100 exploits the many inherent advantages of geostationary satellite communications to offer reliable communication between a central monitoring facility and RTUs; even isolated RTUs dispersed over a wide geographic region. For event reporting or just regular reports of asset status the PDT-100 creates a new exciting option for SCADA.

Innovative packaging enables the omni-directional antenna, the GPS and all the radio circuitry to be housed in one small 3lb enclosure. With no moving parts, this satellite terminal will not suffer from mechanical wear making it inherently highly reliable.

The interface to the terminal is the widely used standard GSM Short Messaging Service (SMS). This allows customers to define and develop their own applications as their needs evolve.

The versatility and flexibility of the Satellite Packet Data Terminal coupled with its low equipment cost, low operating cost, satellite technology benefits and high reliability are sure to quickly translate to improved profitability and streamlined processes for remote data acquisition and control.

Features:

- all-in-one packaging
- L-band satellite technology
- coverage includes all of North & Central America, extending 250 miles off the coast
- built-in GPS
- lightweight: less than 3 lbs
- discrete inputs and outputs for monitoring applications
- no moving parts for maximum reliability
- RS-232 connection to DTE or onboard computer
- GSM industry standard API supports existing applications and DTEs
- affordable Packet Data Solution

Satellite Communications Solutions ... at an affordable price.

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