



Electronic Sensors, Inc.

Model 9142 Plug & Play Satellite Modem

DESCRIPTION

The 9142 is a low cost, easy to install, bi-directional satellite modem/RTU (Remote Telemetry Unit). The modem is capable of sending and receiving information from any global position. Standard analog sensors and/or switch contacts can be monitored. The "Plug & Play" features of the 9142 makes it useful for remote monitoring of conditions and changes at numerous types of sites, including bulk storage tanks, water and waste processing facilities, pipelines, rail crossings, chemical and petroleum plants, weather stations, irrigation facilities, and many others. Monitoring remote sites so that off-site personnel can respond to specific events or conditions has never been simpler or more cost effective. The 9142 can report at timed intervals, upon alarm zone changes or both. It can also be polled on demand.

SPECIFICATIONS

Analog Inputs (-2A)

Qty: 2
4-20 mA (154 ohms)
(24VDC Loop Power Available)

Digital Input (-1C)

Cytel gauge

Totalizer (-TOL)

Pulse totalizer
Input (Pull to ground)

Accuracy

0.5%

Input Connection

Screw terminals

Contact Closure Input (-2B)

Qty: 2

Operating Temperature

-20 F to 140F
-30 C to 60C

OPERATION

Information from a site is sent through the ORBCOMM satellite network and delivered to the user's computer via the Internet as an email message. Supporting software can be set up to open the email data messages automatically and write the data into the appropriate tables in the monitoring software, which can then be opened and viewed at will by the user. For alarm events, the supporting software can be set up to respond in a variety of ways including computer generated alarm tones, faxes, emails, pager messages or telephone voice messages. Bi-directional communication allows the user to reprogram alarm zones, reporting cycles and other parameters from the monitoring computer.

Plug & Play field setup requires four easy steps: 1) Mount the unit. 2) Connect AC power. 3) Wire sensors into the unit. 4) Initialize the unit by sending setup information. The 9142 features flash memory and a RS-232 port, so the initial setup can be done with a PC or laptop prior to field deployment. Setup can also be done at the site with a laptop, or it can be done remotely from the monitoring computer.



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Rev. 10/09

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Level Devil
Bulk Inventory Management Solutions

9142 Plug & Play Satellite Modem

SPECIFICATIONS (continued)

Input Voltage

98 to 134 VAC @ .3 amps
196 to 268 VAC @ .15 amps
50 or 60 Hz

Housing

Outdoor Weatherproof
Includes convenient knockouts

Humidity

0 – 100%

Size

8 x 12 x 4 (inches)
20 x 30 x 10 (cm)

Weight

7 pounds
3 kilograms

Communications

- ORBCOMM satellite constellation
- Integrated antenna

Coverage

Global/world wide

Mounting

In view of sky

Programming

From remote software

Alarm Zones

- Critically low
- Low
- Ok
- High
- Critically high

Remote communication software and a satellite communication service is required and can be provided by Electronic Sensors, Inc. See separate data sheet on remote communication software.

Private label ready
OEM ready

HOW TO ORDER

9142-AC-2A-2B

9142-AC-C1

9142-AC-TOL

SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE

Electronic Sensors, Inc. is the first Vendor Managed Inventory (VMI) supplier to offer satellite communication using the ORBCOMM system. ORBCOMM is the world's first Low Earth Orbit (LEO) communications system to provide low cost, two-way, mobile and fixed data messaging and Geo-location services worldwide. The system uses a constellation of 28 LEO satellites and several gateway earth stations located worldwide. Most are in place today.

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