



Electronic Sensors, Inc.

Model 9172

PentaComm Satellite Communicator

Overview

The PentaComm (model 9172) is a five-channel data monitor and satellite communicator. It uses the Orbcomm satellite constellation and infrastructure to collect data from anywhere in the world and report it to anyone having Internet access. Thirty-six satellites are available to link data from the PentaComm to an Orbcomm ground station where it passes through the Internet (in the form of an email) and onto its final destination.

Electronic Sensors, Inc. (ESI) and Orbcomm have provided clients with an affordable means to collect valuable data from remote locations since 1998. The PentaComm represents the third generation of satellite communicators from ESI and as long as customers continue to ask for new services, ESI will continue to design and deliver affordable systems to meet those needs!

The PentaComm is housed in a NEMA 4X enclosure allowing it to meet the most demanding requirements. Located inside the PentaComm is a battery, satellite transceiver, and input circuitry to connect up to five 4-20ma or 0-5 volt data signals, in any combination.

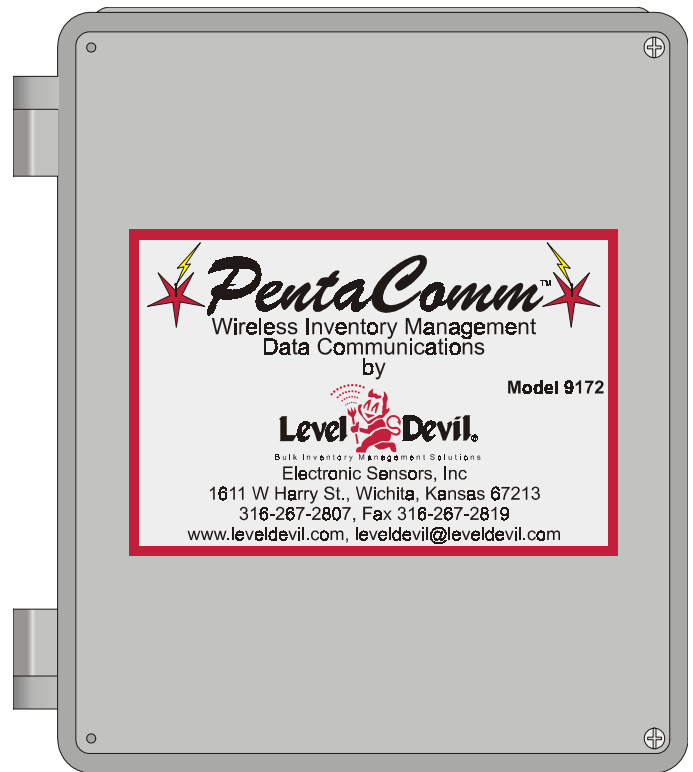
Specifications

Data Monitoring Capacity:	5 Data Channels
Data Input Types:	4-20ma and 0-5 VDC
Data Power Source	5, 12 or 24 volts DC
Outputs:	2 Relays (optional to 5 total)
Power Source:	Battery with external supplement connector
Report Rate:	Field Adjustable (10 minute to 1 week)
Sleep Mode:	Field Adjustable
Weight:	10 pounds
Size:	See Drawing
Temperature:	-40F to 150F
Exposed Material:	Fiberglass, PVC, and Stainless Steel
Transceiver:	Transmit: 148 to 150 MHz / Receive: 137 to 138 MHz
Position Determination:	Orbcomm inherent (Doppler effect) .25 to 1.2 miles

Applications

A typical application for the 9172 is in support of a Vendor Managed Inventory (VMI) program. A supplier (vendor) of bulk liquid may check the level of a tank before scheduling a delivery. This reduces the number of trips to the tank and in return saves both time and money. The more remote a tank is the more profitable the PentaComm make the VMI service. Some of the current market areas are:

- Oil and Gas Fields
- Oxygen Tanks at Hospitals
- Lift Stations
- Several Chemical Feed Stations
- Live Stock Feed Tanks
- Remote Storage Tank Farms



Specifications Subject to change without notice.

Electronic Sensors, Inc.

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Model 9172 PentaComm Satellite Communicator Operations

The PentaComm has a built-in timer that helps manage power. To conserve battery power, the 9172 spends most of the time sleeping. Power is applied to the sensors and the OrbcComm communicator only at specified times of the day. All timing is programmable so power may be managed according to application needs. When level alarms are the main task more data sampling is required. When only daily levels are needed, then power off dominates. The PentaComm is very flexible and includes the following features to support all applications:

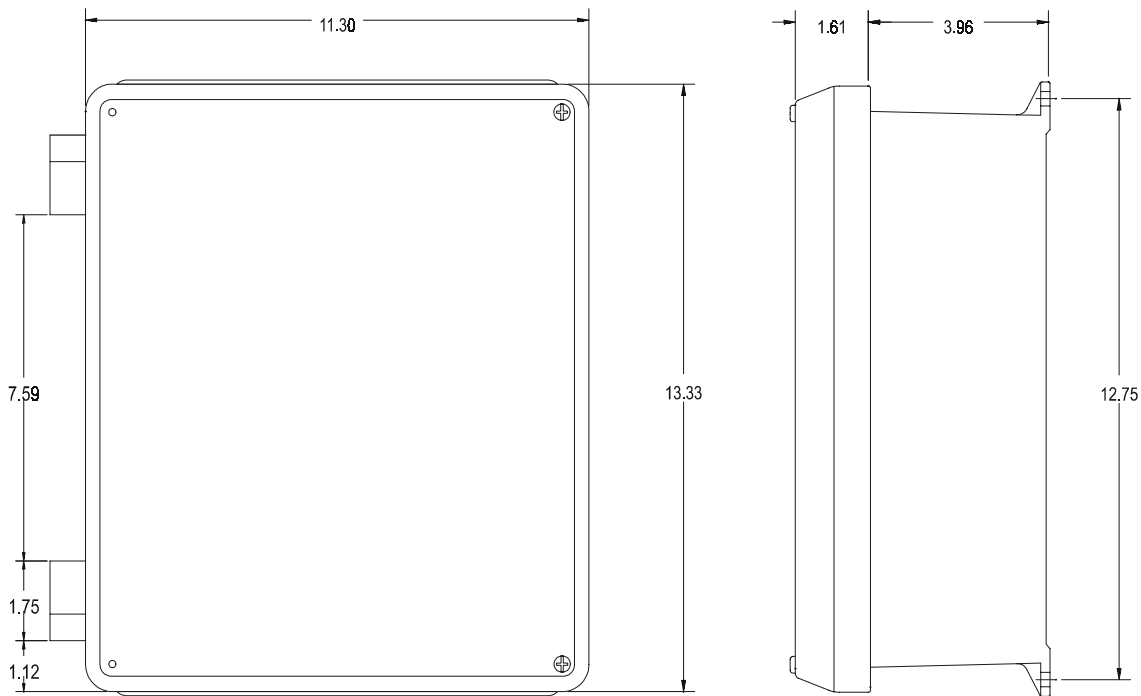
- Power Management Logic
- Auto Send Timers
- Data Logging Memory
- Load Delivery Reporting
- Level Alarm Reporting
- Low Battery Indicator
- Relay Outputs

How to Order

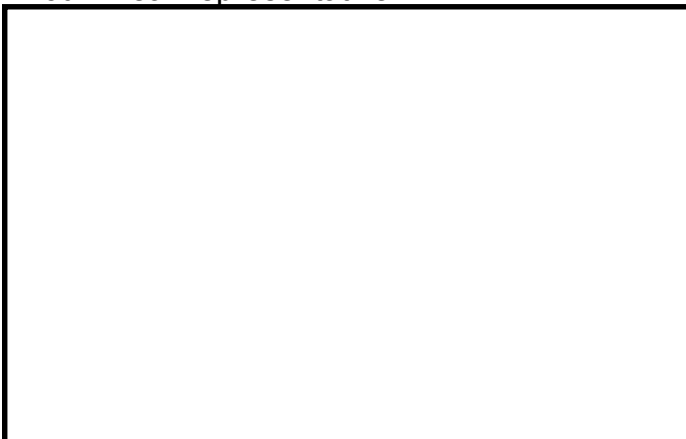
9172-AC18	AC powered
9172-SP20	Solar powered
9172-SP20-BH2	Solar powered with 2-inch bulkhead mounting

Hundreds of options available to fit your specific need. Contact factory.

Outline Drawing



Your Area Representative:



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