*SatData*

# Satellite/Internet SCADA System

## Application

The **SatData** Satellite/Internet SCADA system gathers data from field equipment and sensors and transmits this data, via satellite, to the Internet. It can be sent directly to your e-mail address or server, or may be displayed on a web page. A SatData system consists of the Mini-C, eCTrack satellite terminal combined with Monico's Mini-C Translator. The SatData system has worldwide coverage.
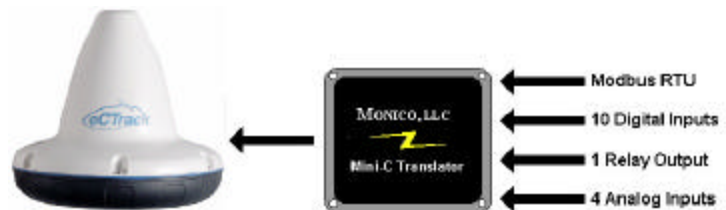
The Mini-C Translator is a rugged industrial micro-controller that acts as a Modbus Master to serial devices and also allows for direct connection of analog and digital field sensors. It communicates directly with and passes values to the Mini-C satellite terminal for transmission to the Internet.

The Mini-C satellite terminal is housed in a rugged, weatherproof, pole/rail mountable enclosure, which will withstand severe vibration and spray. Both the Mini-C terminal and Translator will operate in extreme temperature ranges with wide fluctuations in voltage.

The SatData system is **Plug and Play** with no field configuration.

## Field Installation

- Mount the Mini-C terminal to a pole or rail.
- Connect the Mini-C terminal cable to the Translator RS232 port.
- Connect the field device's 2 wire RS485 serial cable to the Translator.
- Apply 12 or 24 Vdc power.



## Data Display and Retrieval

Field data may arrive as values in the body of an e-mail or be displayed on Monico's web server. Monico's Web display may be tailored to the customers requirements such as the Electronic Flow Meter application shown below. Instantaneous values may be retrieved by polling the field unit.

The Monico SatData web server is a powerful and reliable computer system located at the Dell Computer facility in Atlanta and monitored 24/7 by Dell engineers. The server has redundant mirrored, hot swappable hard drives, dual hot swappable power supplies and dual hot swappable network connections to a high speed fiber network, providing a Dell Computer Corporation guaranteed 99.9% uptime.