

APPLICATION NOTE 135



**OVERVIEW**

The SAT100 Kit is designed as a preconfigured and tested, easy-to-install kit for Remote Groundwater Monitoring. The SAT100 kits including SAT100 Satellite Modem RTU, Solar Panels, Battery, Weatherproof Enclosure, Well Casing Mount.

The SAT100 can be programmed to interface to Industry Standard 4-20ma Level Sensors or RS485 Modbus Based Submersible Level Sensors provided by the client or supplied complete with Level sensors. Quick disconnects or strain reliefs can be provided as required to interface to the selected Level sensors.

The SAT100 combines low power operation with global satellite communication to ensure real time reporting at programmed intervals. The SAT100 with GPS timed reporting ensures correct time stamping of data.

The SCADALink SatSCADA Server provides web/smartphone access to real time and historical site data. The SatSCADA server provides an easy Modbus interface to clients SCADA hosts. The SAT100 Groundwater Kit ensures trouble-free rapid deployment and operation in even the most remote sites.

**FEATURES**

- Global Coverage via Inmarsat Satellite Network
- No Complicated Antenna Pointing Required
- 1 RS232, 1 RS485 Serial Port
- 4 Onboard Analog Inputs/Digital I/O
- Integration to SatSCADA Server for SCADA Data Communications, RTU, and Alarm Callout Services
- Sensor Power Control
- Daily and Hourly Reports
- Alarm Callout

**APPLICATIONS**

- River and Lake Level Monitoring
- Groundwater and Borehole Monitoring
- Flood Warning



**SYSTEM DIAGRAM**

