

HTT 3000 Satellite Monitoring and Control



The Model 3000 is a self-contained communications and control device that receives input data from analog or digital sensors and transmits that data through the ORBCOMM low-Earth orbit satellite (LEO) network directly to the High Tide Technologies server. With its imbedded PLC it can perform many control and monitoring functions. The transmitted information is checked for alarms and stored in a historical database. Historical data can be viewed by the subscribing client through the Internet using any standard Internet browser. Typical applications include unmanned treatment plan monitoring, large lift-station monitoring, and various local control applications.

Typical Applications:

- Unmanned treatment plan monitors
- Primary lift station monitoring

Hardware Features:

- Built in satellite modem
- Compatible with TelemetryVIEW Web-based SCADA services
- No towers, repeaters licenses or RF surveys required
- Simple installation and service
- No antenna aiming
- A/C, or DC powered
- Built in PLC for I/O expansion and local control
- 20 built in digital inputs
- 16 built in digital outputs
- 4 expansion slots for additional digital or analog inputs and outputs
- Optionally installed relays
- Battery backed up communications for power fail alarms

System Features:

- Secure access from any Internet connected computer
- 24 hour customer support
- Text pager or cell phone text alarms
- History graphs for tank and pump statistics
- Daily starts and runtime reporting for pump stations
- User configurable alarms
- Various automatically generated reports in Excel format stored on servers



Input Power	110/220 VAC or 24v DC
Backup Power	12v DC lead acid 7-14 Days minimum
Modem	Stellar ST-2500
Antenna	Cushcraft AR-2
Enclosure	NEMA 4 FIBERGLASS
Digital Inputs	20 built in
Digital Outputs	16 built in
I/O Expansion	Various analog input and analog output expansion options
Satellite Vendor	ORBCOMM, LLC
Communications	User configurable
Storage Temp	-40 ~ 60 °C
Operating Temp	-20 ~ 60 °C
Humidity	0~100% non-condensing
Product Life	Est. 5-yr for Battery
Alarm Conditions	External power loss Low battery Pre-set level/flow events Pump failure