

# VeriComm® S<sub>1</sub>RO Control Panels

## Applications

VeriComm® S1RO and S2RO remote telemetry control panels are used with on-demand simplex pumping operations. Coupled with the web-based VeriComm Monitoring System, these affordable control panels give wastewater system operators and maintenance organizations the ability to monitor and control each individual system's performance remotely, with real-time efficiency, while remaining invisible to the homeowner.



Typical VeriComm® S<sub>1</sub>RO Control Panel  
Standard Models: VCOM S1RO, VCOM S2RO

## Features

### Three Operating Modes

- "Start-Up Mode" collects trend data and establishes operating standards during the first 30 days of operation
- "Normal Mode" manages day-to-day functions
- "Test Mode" suspends data collection and alarm reporting during installation and service

### Data Collection and Utilization

- Compiles data logs of system conditions and events such as pump run times, pump cycles, and alarm conditions

### Troubleshooting and Diagnostic Logic

- Reports suspected component failures, which then trigger alarms

### Advanced Control Logic

- Activates system diagnostics in the event of a float failure or malfunction and maintains normal system operation until servicing can occur

## Features, con't.

### Communication and Alarm Management

- Provides remote telemetry and a web-based monitoring application for communication and alarm management (see *VeriComm Monitoring System*, NTD-CP-VCOM-1)
- Updates point values (including timer settings) and queued changes during each host communication session
- Contacts with host monthly; more frequently during alarm conditions

### Multiple Communication Methods

- Call-In to VeriComm® Host (phone line or optional high speed internet)
  - Signals critical fault conditions that require immediate attention (e.g., pump failure) through automatic alarm notifications
  - Signals less-critical fault conditions (e.g., stuck float switch) through automatic alert notifications and triggers the panel's troubleshooting logic and alternative operating mode
  - Sends updates through automatic update notifications, including alarm updates or all-clear notifications following alarms/alerts, as well as normally scheduled monthly panel reports
  - Allows manual, forced communication from panel to host for updating point values and receipt of queued changes
- Real-Time, Manual Direct Panel Connection
  - Allows a local operator real-time access to detailed logged data and the ability to change point values through direct connection via RS-232 serial port from a laptop or Android® device with optional Bluetooth® kit
  - Allows a local operator to initiate an auto-answer mode in real-time to access detailed logged data and the ability to change point values via direct, forced communication at the site

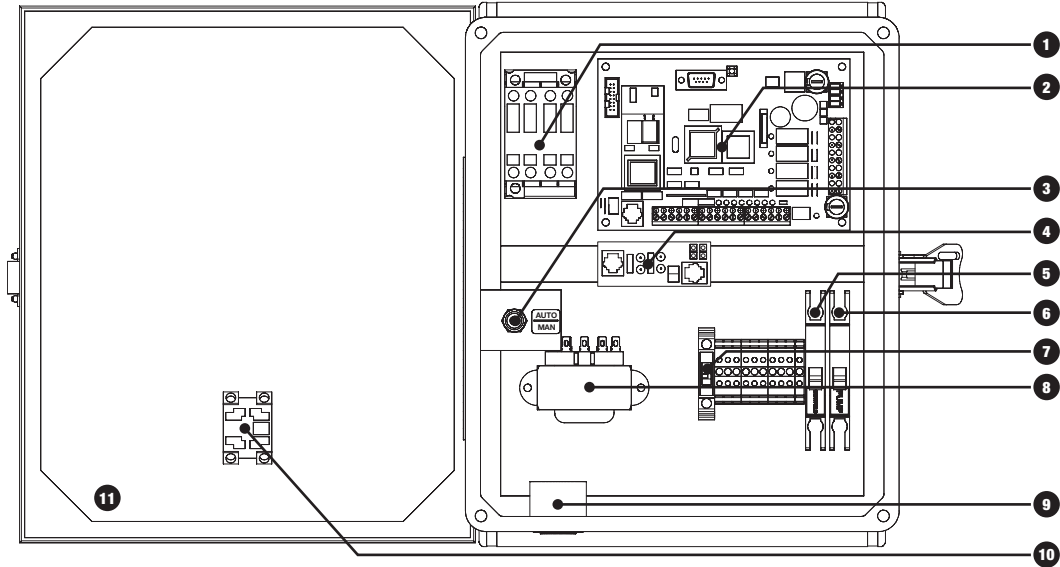
Open-architecture software with password security is used during real-time, manual connections. Orenco offers BT-VCOM software as an option, but VeriComm panels require no proprietary software. VT100 protocol allows access and control from a Mac or PC computer using a simple communication program (e.g., Windows® HyperTerminal), with multilevel password protection ensuring that only qualified personnel can access the panel's data.

### Status Light Indicators

- Flashing green LED for normal operation
- Yellow LEDs for status of digital inputs
- Red LEDs for status of digital outputs and modem activity

### UL-recognized and FCC-approved

For more information, try our online demo at [www.vericomm.net](http://www.vericomm.net) (no password required).



## Standard Components

Feature	Specifications
1. Motor-Start Contactor	120 V, 16 FLA, 1 hp (0.75 kW), 60 Hz; 2.5 million cycles at FLA (5 million at 50% of FLA) 240 V, 16 FLA, 3 hp (2.24 kW), 60 Hz; 2.5 million cycles at FLA (5 million at 50% of FLA)
2. VeriComm® Remote Telemetry Unit*	ATRTU-100: 36/18 VAC (center tap transformer); 8 digital inputs, 4 analog inputs, 4 digital outputs, 0 analog outputs, on-board modem (2400 baud); LED input and output indicators; 1-year battery backup of data and program settings
3. Toggle Switch	Single-pole, single-throw, momentary manual switch; 20 A, 3/4 hp (0.75 kW)
4. Phone Line Surge Arrester/DSL Filter	Surge protection for phone line; DSL filter for lines that also carry DSL service; connection to panel via RJ11 jack or terminal block
5. Controls Circuit Breaker	10 A, OFF/ON switch; single-pole 120 V; DIN rail mounting with thermal magnetic tripping characteristics (240 V units are available for international markets)
6. Pump Circuit Breaker	20 A, OFF/ON switch; single-pole 120 V or double-pole 240 V; DIN rail mounting with thermal magnetic tripping characteristics
7. Fuse	250 VAC, 1 A
8. Transformer	120 VAC primary, 36 VCT @ 0.85 A secondary
9. Audible Alarm	95 dB at 24 in. (610 mm), warble-tone sound
10. Visual Alarm	7/8-in. (22-mm) diameter red lens; "Push-to-silence;" UL Type 4X rated, 1 W LED light, 120 V
11. Panel Enclosure	Measures 13.51 in. high x 11.29 in. wide x 5.58 in. deep (343 mm x 287 mm x 142 mm); UL Type 4X rated; constructed of UV-resistant fiberglass; hinges and latch are stainless steel
VCOM-S1 RO	120 VAC, 1 hp, 16 A, single-phase, 60 Hz
VCOM-S2 RO	120 VAC, 1 hp, or 240 VAC, 3 hp; 16 A, single-phase, 60 Hz

\*See VeriComm® Monitoring System (NTD-CP-VCOM-1) for details.

## Optional Components

Feature	Specification(s)	Product Code Adder
Pump Run Light	7/8-in. (22-mm) diameter green lens. UL Type 4X rated, 1 W LED light, 120 V	PRL
Heater	Anti-condensation heater; self-adjusting; radiates additional wattage as temperature drops	HT

Additional options available on a custom basis. Contact Orenco Controls for more information.