

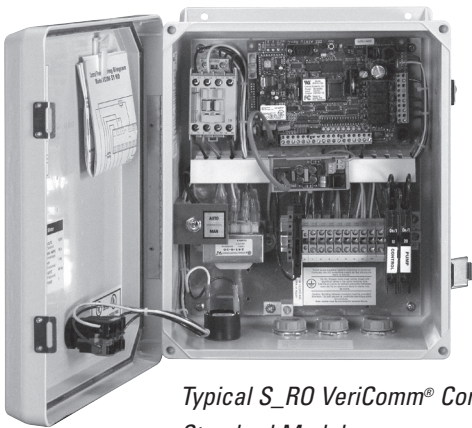
# VeriComm® S\_RO Control Panels

Technical  
Data Sheet

## For On-Demand Applications

### Applications

VeriComm S1RO and S2RO remote telemetry control panels are used with on-demand simplex pumping operations. Coupled with the VeriComm Web-based Monitoring System, these affordable control panels give water/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 S\_RO VeriComm® Control Panel  
Standard Models:  
VCOM S1RO, VCOM S2RO

### To Specify...

To specify this panel for your installation, require the following:

#### **Basic Control Logic: Three Operating Modes**

- A "Start-up Mode" for the initial 30 days, during which the system collects trend data to establish operating standards for future reference.
- A "Normal Mode" that manages day-to-day functions.
- A "Test Mode" that suspends data collection and alarm reporting during installation and service.

#### **Data Collection and Utilization**

- Data logs of system conditions and events, such as pump run times, pump cycles, and alarm conditions.

#### **Troubleshooting and Diagnostic Logic**

- Troubleshooting capabilities that can report suspected failed components, which then trigger Alarms.

#### **Advanced Control Logic**

- Advanced control logic that activates during float malfunctions to diagnose the situation and keep the system operating normally until servicing.

### Communication and Alarm Management

- Remote telemetry capabilities coupled with a Web-based monitoring application (see VeriComm Monitoring System, ATD-WEB-VCOM-1) for communication and alarm management. Updating of point values and receipt of queued changes during each communication session with host. Communication sessions that occur monthly, at a minimum, and more frequently during alarm conditions.
- Multiple methods of communication, as follows:

#### **Call-In to VeriComm® Host**

- Automatic notification to host of "Alarms," which signal fault conditions that need to be addressed immediately (e.g., pump failure).
- Automatic notification to host of "Alerts," which signal less critical fault conditions and which trigger the panel's troubleshooting logic and alternative operating mode (e.g., stuck float switch).
- Automatic notification to host of "Updates," which include alarm updates or all-clear notifications following Alarms/Alerts, as well as normally scheduled monthly panel reports.
- Manual, forced communication from panel to host to effect an updating of point values and receipt of queued changes.

#### **Real-Time Direct Connection to Panel**

- Manual, direct connection at the site via RS-232 serial port, to allow a local operator real-time access to detailed logged data and the ability to change point values from a laptop.
- Manual, forced communication by local operator/homeowner at the site to initiate an auto-answer mode, allowing a remote operator real-time access to detailed logged data and the ability to change point values.

During real-time, manual connections, software with open architecture (and password security) is used; no proprietary software is required. VT100 protocol allows access and control from any computer modem (Mac or PC) with a simple communication program (e.g., Windows® HyperTerminal); multilevel password protection in panel ensures that only qualified personnel can access the panel's data.

### Additional Features

- Status light indicators on the board, including . . .
  - 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).



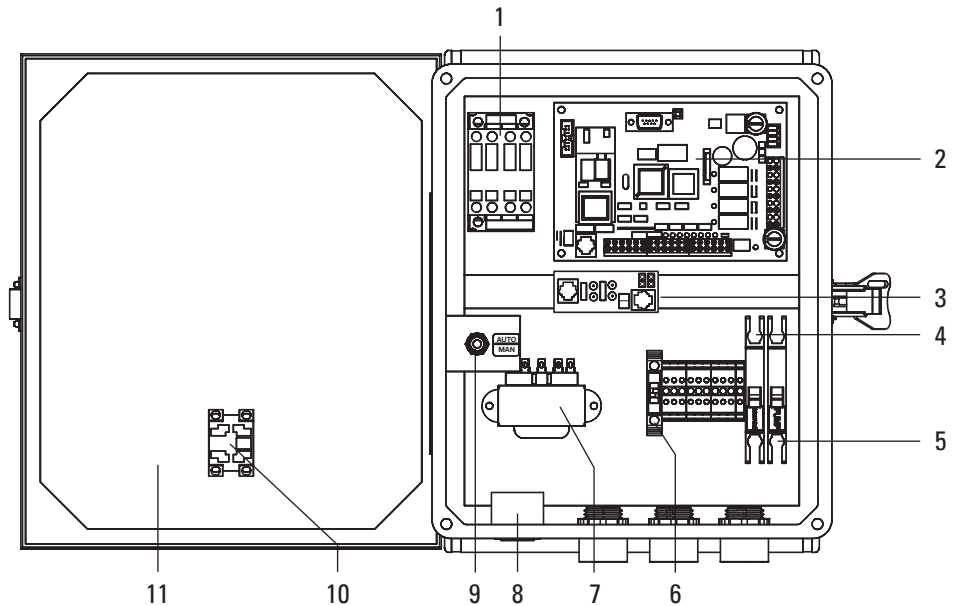
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ATD-CP-VCOM-4  
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1. Motor-Start Contactor
2. VeriComm® Remote Telemetry Board
3. Phone Line Surge Arrestor/DSL Filter
4. Control Circuit Breaker
5. Pump Circuit Breaker
6. Fuse
7. Transformer
8. Audio Alarm
9. Toggle Switch
10. Visual Alarm
11. Panel Enclosure



## Standard Components

Feature	Specifications
1. Motor-Start Contactor	120 VAC: 16 FLA, 1 hp, 60 Hz; 2.5 million cycles at FLA (10 million at 50% of FLA). 240 VAC: 16 FLA, 3 hp, 60 Hz; 2.5 million cycles at FLA (10 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. Phone Line Surge Arrestor/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.
4. Control Circuit Breaker	10 A, OFF/ON switch. Single-pole 120 VAC, double-pole 240 VAC. DIN rail mounting with thermal magnetic tripping characteristics.
5. Pump Circuit Breaker	20 A, OFF/ON switch. Single-pole 120 VAC, double-pole 240 VAC. DIN rail mounting with thermal magnetic tripping characteristics.
6. Fuse	120 VAC Primary, 36 VCT @ 0.85 A Secondary.
7. Transformer	250 VAC, 1 A.
8. Audio Alarm	95 dB at 24 in. (610 mm), warble-tone sound.
9. Toggle Switch	Single-pole switch, automatic On, with spring-loaded, momentary, manual On. 20 A, 1 hp.
10. Visual Alarm	7/8 in. (22 mm) diameter red lens, "Push-to-silence." NEMA 4, LED, 120 VAC.
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). NEMA 4X rated. Constructed of UV-resistant fiberglass; hinges and latch are stainless steel. Conduit couplings provided.
VCOM-S1 RO	120 VAC, 3/4 hp, 14 A, single-phase, 60 Hz.
VCOM-S2 RO	240 VAC, 2 hp, 14 A, single-phase, 60 Hz.

## Optional Components

Feature	Specifications	Product Code Adder
Pump Run Light	7/8 in. (22 mm) diameter green lens. NEMA 4, LED, 120 VAC.	PRL
Heater	Anticondensation heater. Self-adjusting: radiates additional Wattage as temperature drops.	HT

\* See VeriComm® Remote Telemetry Unit (ATD-CP-VCOM-1) and VeriComm® Monitoring System (ATD-WEB-VCOM-1) for details.