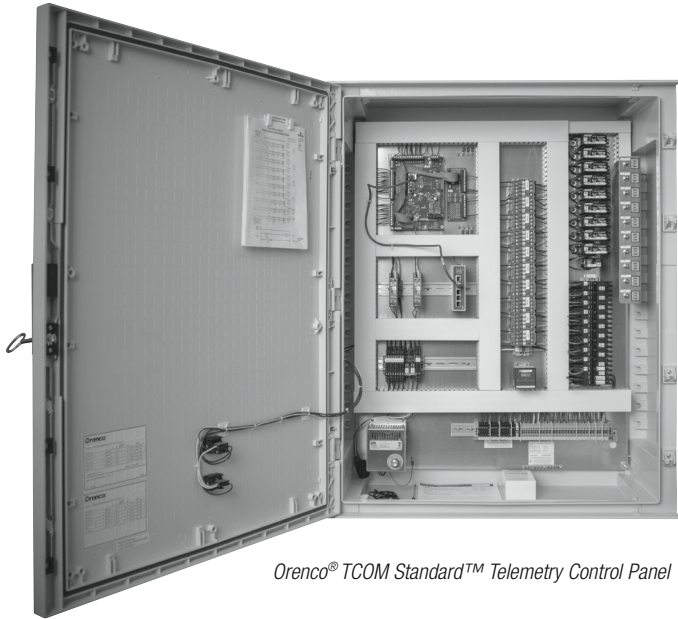


# Standard TCOM Telemetry Control Panels

## Applications

Orenco's Standard TCOM Telemetry Control Panels are a cost-effective, standardized means of providing custom pump and system controls in commercial and municipal AdvanTex™ Treatment Systems.

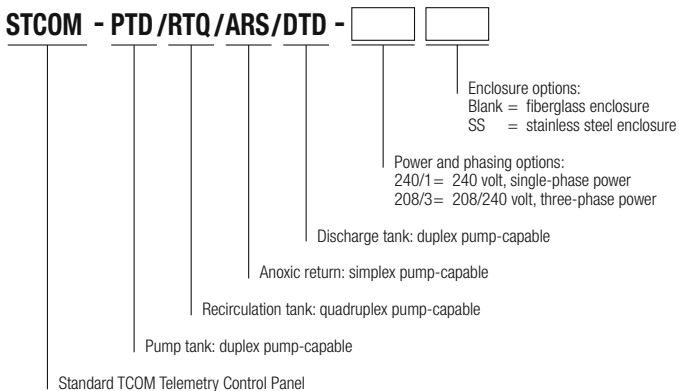


Orenco® TCOM Standard™ Telemetry Control Panel

## Models

STCOM-PTD/RTQ/ARS/DTD-240/1  
 STCOM-PTD/RTQ/ARS/DTD-208/3  
 STCOM-PTD/RTQ/ARS/DTD-240/1-SS  
 STCOM-PTD/RTQ/ARS/DTD-208/3-SS

## Product Code Diagram



## General

Orenco's Standard TCOM Telemetry Control Panels remotely monitor and control treatment systems with real-time efficiency, while remaining invisible to the public. They give wastewater system operators and maintainers the ability to use one control panel model for a variety of AdvanTex™ Treatment System layouts.

Standard TCOM panels retain the best features of Orenco's custom control panels, with added flexibility. Operators incorporate systems-specific operations by inputting key features to tailor the panel to the project.

For information on Orenco's custom TCOM panels, see NTD-CP-TCOM-1, Orenco® ATRTU-TCOM Remote Telemetry Board, and NTD-CP-TCOM-2, Orenco® ATRTU-TCOM Telemetry Unit.

## Features

### Start-Up Guide

- Easy-to-use, field-settable software and handy instructions allow operators to set TCOM Standard Telemetry Control Panels to any panel-supported configuration

### Configuration Options

- Primary Tank (PTD) allows duplex pumps to run in alternating sequence, on demand or on a timer; feature can be turned off for gravity tank discharge
- Recirculation Tank (RTQ) allows as many as four pumps to be run off a timer for the recirculation system; manual timer settings, calculated timer settings, or automated timer settings can be chosen
- Anoxic Return (ARS) allows a single pump to be run off a timer using the same redundant off (RO) float switch used for the recirc pumping system; calculated timer settings or automated timer settings can be chosen; anoxic return feature can be turned off if not needed
- Discharge Tank (DTD) allows duplex pumps to run in alternating sequence, on demand or on a timer; feature can be turned off for gravity tank discharge

### Power Options\*

- Single-phase (240/1) 240V single-phase power to pumps
- Three-phase (208/3) 208/240V three-phase power to pumps

\* 120V power is required to operate the panel

### Ventilation Fan Controller

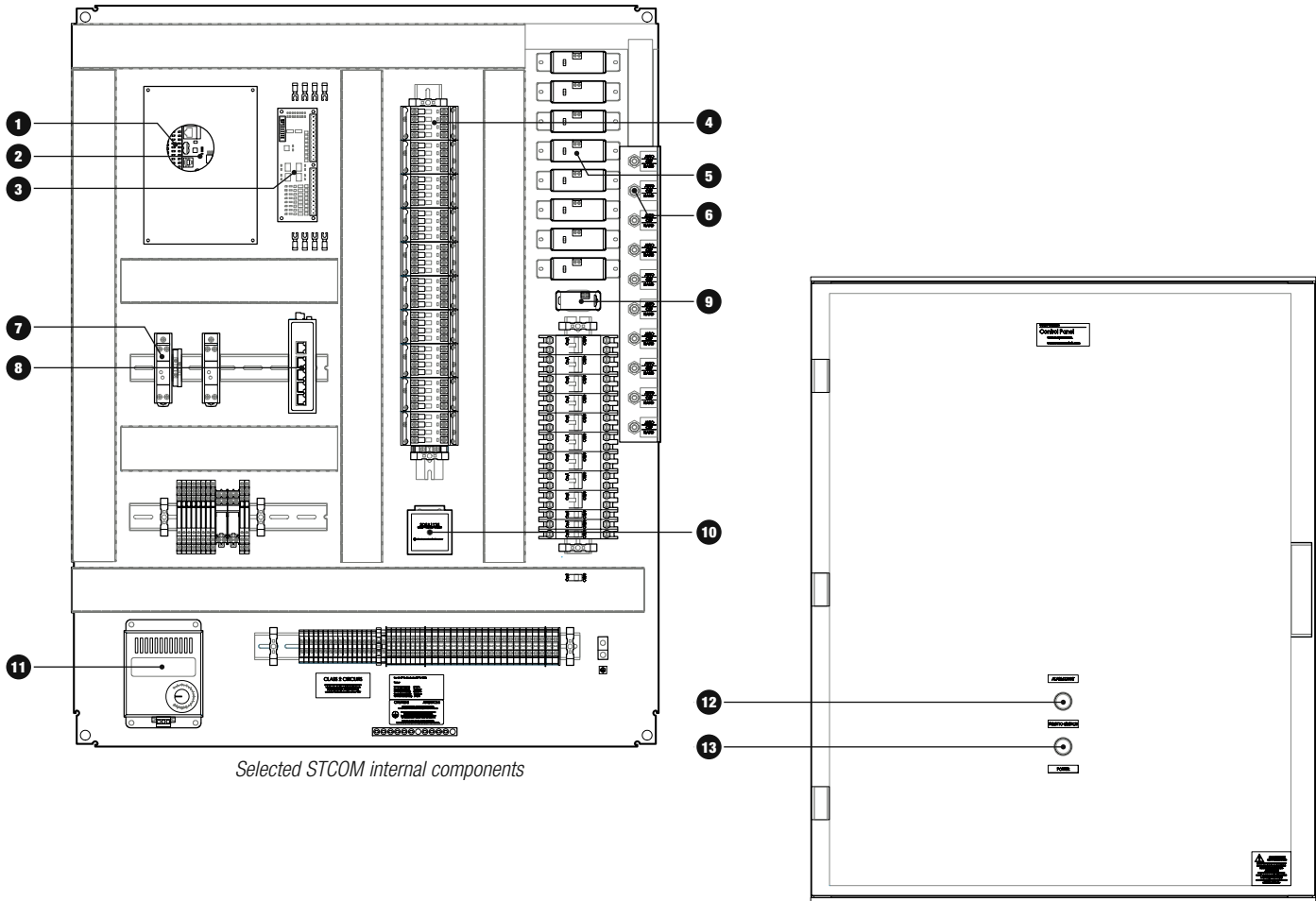
- Built-in ventilation fan controller programming; feature can be turned off for systems with passive ventilation

### Flow Meter Data

- Built-in programming for receiving and using data from external flow meters via 4-20 mA signals; feature can be turned off for systems without external flow metering

### Remote Connection

- Built-in mobile 4G modem for remote connectivity; built-in phone line or ethernet connectivity for areas with no mobile accessibility



Selected STCOM internal components

STCOM control panel door  
(Not to scale with internal components illustration)

## Components

Component	(Qty)	Specifications
Panel Enclosure	(1)	Standard: fiberglass-reinforced resin; 41 × 33 × 14 in. (1041 × 838 × 356 mm), nominal Optional: stainless steel, 39 × 31.5 × 12 (991 × 800 × 305 mm), nominal
1. ATRTU Processor Board	(1)	See NTD-CP-TCOM-2, <i>Orenco® ATRTU-TCOM Telemetry Unit</i> , for general information and specifications
2. ATRTU S-TCOM I/O	(1)	See NTD-CP-TCOM-2, <i>Orenco® ATRTU-TCOM Telemetry Unit</i> , for general information and specifications
3. ATRTU DIOXP	(1)	See NTD-CP-TCOM-1, <i>Orenco® ATRTU-TCOM Remote Telemetry Board</i> , for specifications
4. Motor Contactors	(10)	18 A, 3-phase, 110–120 V, 50/60 Hz, 16 FLA, 1.5 hp (0.75 kW), 60 hz; 2.5 million cycles at FLA (5 million at 50% of FLA)
5. Current Sensors	(8)	120 V, 0–40 A, 0–5 VDC output
6. Toggle Switches	(10)	Single-pole, single-throw, momentary manual switch; 20 A, 3/4 hp (0.75 kW)
7. Power Supply	(2)	24 VDC, 1.3 A, 30 W
8. Cell Router	(1)	LTE/G4 Verizon
9. Current Sensor	(1)	Solid state, 0.75–200 A, output type N.O, 0.5 A @ 250V AC/DC
10. Surge Arrester	(1)	Single-phase, 2-wire, 120 V
11. Internal Heater	(1)	120V, 100W anti-condensation heater; self-adjusting: radiates additional wattage as temperature drops
12. Visual Alarm	(1)	7/8-in. (22-mm) diameter red lens; “Push-to-silence;” UL Type 4X rated, 1 W LED light, 120 V
13. Power Light	(1)	7/8-in. (22-mm) diameter green lens. UL Type 4X rated, 1 W LED light, 120 V
14. Audible Alarm, not shown	(1)	95 dB at 24 in. (610 mm), warble-tone sound