

**REPCO CONTROLS**  
**Waste System Control Panel Specifications**  
**MODEL: REP-DUPLEX 230**

**SECTION 1. – WASTE WATER SYSTEM CONTROLS**

.01 SCOPE: The scope of this section of the specifications includes the furnishing of a REPCO CONTROLS panel as described herein, as manufactured by R.E. Prescott Co., Inc. The Control Panel is to provide the control functions of a waste pumping system consisting of two pumps.

.02 ENCLOSURE: The control panel will be housed in a lockable NEMA 4X enclosure with stainless steel hardware. Panel enclosure fabricated out of polycarbonate with overlapping cover. Exterior color is light grey with a gloss finish. Furnished with mounting system.

.03 BACK PANEL: Interior control devices are to be mounted on a steel control panel back plate. Back plate is fabricated out of 12-gauge aluminum. Finish is natural.

- Main lug power distribution block (115-230V w/ GND)
- Circuit breakers for each pump
- DP motor starters for each pump
- Control circuit breaker for alarm
- Control power secondary fuse block and fuse
- Alternating controller
- Terminal strip

.04 EXTERNAL CONTROL PANEL DOOR: Hinge is provided on the long side. Control door is blind with an internal dead front door with the control devices mounted and protected behind the control panel door.

The dead front door will have the following components wired and mounted

- Pump Run Indication Light
- Hand-Off-Automatic pump selector switches



.05 CONTROL DEVICES: The control panel is designed to use standard normally open float switches. Off, Lead On, Alarm and Lag On. Switches will allow for pump alternation and lead lag.

.06 FUNCTIONS: The control panel provides system control functions through the alternator, and HOA switches. Run lights are incorporated in the controls. The control panel is to provide the following operating functions:



#### Operations

- The control panel will provide output signals for 2 pumps to operate in a lead/lag manner with alternation after each pumping cycle. Control of the pumps is based on inputs from the pressure switches for off, lead on and lag on. The start and run differential is built into the trip and reset settings of the pressure switches.
- The control panel is to be line powered by 115 VAC, single phase, 60 HZ with ground.

#### B. Alarms/Status

- Alarm annunciation will be displayed with a red alarm light
- Audible alarm will be an external piezometer type horn
- Alarm is initiated when the lag pump is called.
- A Test-Auto-Silence selector switch is provided.
- Pilot lights provide pump run indication and alarm status

.07 DOCUMENTATION: Documentation provided for the control panel to include the following information:

- Panel to bear the UL 508 Industrial Enclosed Control Panel designation
- Installation and operating instructions.
- Description of control panel functions.
- Replacement Parts list.
- Wiring diagrams

.08 MANUFACTURERS: The control panel is to be a REPCO CONTROLS Waste Water Control Panel manufactured by:

R.E. Prescott Co., Inc.; 10 Railroad Ave.; Exeter, NH 03833; 603-772-4321

