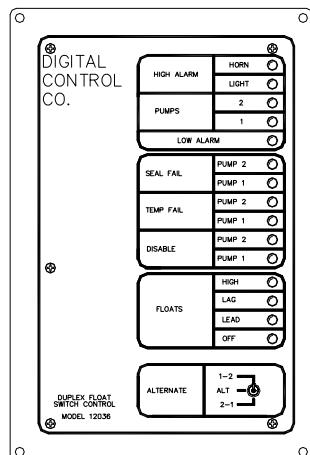




Duplex Float Switch Controller (DFSC) Model Number: 12036 (U.L. Listed)

Manufacturer of High Performance Instrumentation and Control Systems



Description:

The Duplex Float Switch Pump Controller (DFSC) model 12036 is a control and display unit which automatically controls up to two single speed pumps. It is designed to be the heart of a duplex pump control system for lift stations and other fluid pump-down applications. The DFSC provides built-in pump alternation, pump start time delay, and pump disable inputs. It is designed to work with up to five float switches. The controller has six optically isolated inputs for seal leak sensors and thermal overload switches available with most submersible pumps. The DFSC includes the following status indicators on front panel: high alarm light, high alarm horn, low alarm, pump status, seal failure, temperature failure, and floats. The DFSC also includes an RS-232 serial communications interface designed to support SCADA systems using a variety of Modbus based communication devices giving the unit remote data acquisition, monitoring, and control capability.

Applications:

- Wastewater Pump Station Level Control
- Water and Wastewater Plant Level Control
- Storm Water Level Control
- Liquid Level Control for Tanks
- Holding Pond Level Control
- Most Liquid level Control Applications

Features:

- Controls up to 2 pumps with built-in alternation and time delay between pump starts.
- Accepts up to 5 float switches.
- Pumps, floats, seal failure, temperature failure, low alarm, high alarm light, and alarm horn status indicators on front panel.
- Alarm relay output to detect alarms from remote site.
- Pump disable inputs.
- Alarm horn silence input.
- Uses non-volatile memory allowing system to retain program software during power loss.
- Proven software that allows for easy setup and reliability.
- Custom software available from factory.

Specifications:

Input Power:

- 115 VAC $\pm 15\%$, 1 A max.

Operating Temperature Range:

- -30°C to $+60^{\circ}\text{C}$ (-22°F to $+140^{\circ}\text{F}$)

Inputs (Self-powered):

- 5 - Float switches (optically isolated)
- 2 - Pump warning (optically isolated)
- 4 - Pump disables for seal failure and high temperature failure (optically isolated)
- 1 - Alarm horn silence (non-isolated)

Relay Outputs:

- Pump 1, 2, High and Low Alarm, and Alarm Horn - SPST Form A - 10 A at 125 VAC

Transient Protection:

- Metal Oxide Varistor

Interconnect:

- Pluggable terminal blocks (screw type)
- DE-9 Connector for RS-232 Bus

External Dimensions:

- 9.60"H x 6.40"W x 1.72"D

UL File Number:

- E201217



4260 114th Terrace N, Clearwater, FL 33762
Toll Free (800) 335-5219 • Office Phone (727) 547-1622 • Office Fax (727) 547-1722
E-mail - dcc@digitalcc.com • Website - www.digitalcc.com