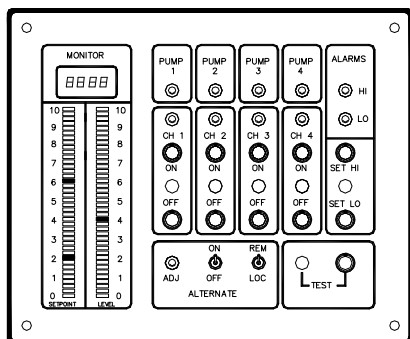




Universal Pump Controller (UPC) Model Number: 11436 (U.L. Listed)

(For Bubbler Systems, External Transducers, and Backup Float Switches)

Manufacturer of High Performance Instrumentation and Control Systems



Description:

The Universal Pump Controller (UPC) model 11436 is a control and display unit which automatically controls up to four variable or single speed pumps. It is designed to be the heart of a pump control system for lift stations, regulated pressure, and other fluid pumping applications. The UPC provides built-in pump alternation, pump start time delay, high and low alarms. It uses most level and pressure sensors as well as backup float switches in addition to having up to two internal pressure transducers for level and pressure measurement. The controller automatically detects and uses the sensor type which is present and working. The UPC provides a combination of digital and analog inputs as well as outputs that can be isolated as an option. The UPC 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
- Landfill Leachate Level Monitoring and Control
- Holding Pond Level Control
- Most Liquid Level Control Applications

Features:

- Controls up to 4 pumps with built-in alternation and time delay between pump starts.
- Controls variable and single speed pumps.
- VFD minimum speed adjustment.
- Isolated digital inputs.
- Isolated analog inputs and outputs (optional).
- Accepts 2 types of sensors including external level and pressure sensors and floats switches.
- Automatically selects a backup sensor in the event the primary sensor fails.
- Connection for battery backup with built-in charger.
- On, Off, High, and Low setpoints adjustable from front panel or remotely via serial port.
- LED numeric and dual bargraph readout.
- External digital level display available.
- Pumps, sensors, and alarms status indicators on front panel.
- Front panel test knob for simulated level input testing.
- RS-232 Serial port for SCADA communications support.
- Uses non-volatile memory allowing system to retain program software and setpoints during power loss.
- Various specific gravities available to accurately measure most liquids.
- Proven software that allows for easy setup and reliability.
- Custom software available from factory.

Specifications:

Input Power:

- 12 VAC $\pm 10\%$ or 12 to 40 VDC, 3 A max.

Operating Temperature Range:

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

Accuracy:

- $\pm 0.25\%$ of span

Display Resolution:

- Bargraph 2.5% / Display 0.1%

Ranges:

- 0 to 20 ft. standard (other ranges available)

Inputs:

- 8 - Isolated digital (standard)
- 8 - Isolated analog inputs (0-5 VDC or 4-20 mA) (optional)
- 2 - Internal pressure transducers (optional)

Relay Outputs:

- 6 - SPST Form A - 20 A at 250 VAC

Outputs:

- 4 - 4-20 mA isolated or non-isolated (optional)
- 2 - Bubbler pump control outputs for bubbler system

Transient Protection:

- Metal Oxide Varistor

Interconnect:

- Pluggable terminal blocks (screw type)
- Relays quick connect terminals (#250 tab)
- 2 - DE-9 connectors for RS-232 Bus

Communications Protocol:

- Modbus ASCII

External Dimensions:

- 6.9"H x 8.5"W x 5"D

UL File Number:

- E201217



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