Duplex Pump Controller II (DPC2)
Model Number: 11928 (U.L. Listed)
(For Bubbler Systems, External Transducers, and Backup Float Switches)

Manufacturer of High Performance Instrumentation and Control Systems

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 2 pumps with built-in alternation and time delay between pump starts.
• Accepts 2 types of sensors including any 4-20 mA level transmitter and float switches.
• Built-in bubbler level measurement control system with internal pressure transducers (optional) that operates up to 2 air compressors.
• Automatic purging to keep bubbler line clear.
• Manual bubbler line purge request input.
• Automatic air tank water drain valve control.
• Automatically selects a backup sensor in the event the primary sensor fails.
• On, Off, High, and Low setpoints adjustable from front panel or remotely via serial port.
• 40 segment bargraph displays level, setpoints, air tank pressure, and air flow rate through the bubbler line.
• External digital level display available.
• Pumps, air compressors, sensors, and alarms status indicators on front panel.
• Front panel test knob for simulated level input testing.
• 4-20 mA signal output proportional to level.
• 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:
• Controller - 12 VAC ±10%, 3 A max.
• Bubbler System - 115VAC ±10%, 2 A min. (varies with air compressor size)

Operating Temperature Range:
• -30°C to +60°C (-22°F to +140°F)

Accuracy:
• ±1.0% of full scale over temp range

Display Resolution: 2.5%

Ranges:
• 0 to 20 ft. standard (other ranges available)

Inputs (Non-isolated):
• 2 - Pump disables
• 5 - Float switches
• 1 - 4-20 mA level sensor

Relay Outputs:
• Pump 1, 2, and High Alarm - SPST Form A - 15 A at 125 VAC
• Low Alarm - SPDT Form C - 10 A at 125 VAC

Discrete Outputs:
• Air Pump and System Error - Open Drain FET, Non-isolated
4-20 mA Current Loop Output:
• Non-isolated transmitter
• Total compliance of 12 VDC

Transient Protection:
• Metal Oxide Varistor

Interconnect:
• Pluggable terminal blocks (screw type)
• Relays - quick connect terminals (#250 tab)
• DE-9 Connector for RS-232 Bus

Communications Protocol:
• Modbus ASCII

External Dimensions:
• Controller - 6.10"H x 7.70"W x 3.70"D
• Air Tank - 18.60"H x 4.00"W/D
• Bubbler Flat Plate – 10.90"H x 9.25"W x 4.0.0"D
• "U-Chassis" - 12.85"H x 11.0"W x 5.625"D

UL File Number:
• E201217

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