

Bubbler Liquid Level Controller

The Bubbler Liquid Level Controller is used to measure the fluid level in open containers in a simple and accurate way. It is virtually maintenance free and can be used with a variety of liquid temperatures.

Typical liquids include, but are not limited to, the following: water, oils, dilute acids, alkaline solutions, fuels, syrups, inks, paints, alcohols, coolants, solvents, sludge, slurries. Specific applications should be reviewed prior to use.

The system has a differential pressure controller with two SPDT control relays with hysteresis along with a scalable 4-20mA process output. The Series BLJ provides flexibility in power usage allowing 120/220 VAC or 24 VDC power.

Programming is easy using the digital display/keypad.



Bubbler Liquid Level Controller examples

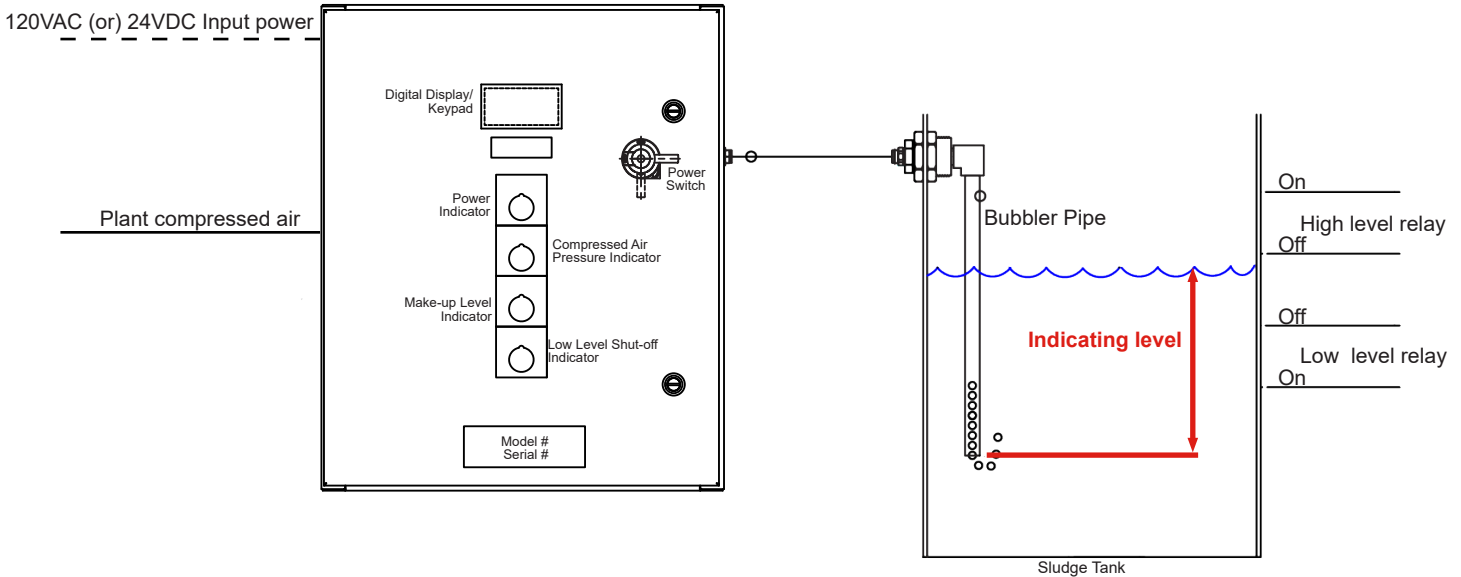
Options

- Power On/Off selector switch.
- High limit alarm light.
- Low limit alarm light.
- Modbus communications available.

Switch Details

- Switch Type: 2 SPDT relays.
- Electrical Rating: 8 amps at 240 VAC resistive.
- Set Point Adjustment: Adjustable via digital display/keypad.

Technical Data



Specifications

Accuracy	±0.5% at 77°F (25°C) including hysteresis and repeatability
Stability	< ±1% per year
Pressure Limits	Ranges ≤2.5 in. w.c. = 2 psi; 5": 5 psi; 10": 10 psi; 50": 5 psi; 100": 9 psi
Temperature Limits	32 to 140° F (0 to 60°C)
Compensated Temperature Limits	32 to 140°F (0 to 60°C)
Thermal Effects	0.020%/°F (0.036/°C) from 77°F (25°C)
Electrical Connections	Screw terminals
Power Requirements	High voltage power = 100 to 240 VAC, 50 to 400 Hz or 132 to 240 VDC Low voltage power = 24 VDC ±20%
Power Consumption	Low voltage power = 24 VDC-130 mA max; High voltage power = 100 to 240 VAC, 132 to 240 VDC-7VA max
Compressed Air Consumption	1.0 SCFH (An optional air supply package can be provided if plant air is not available.)
Output Signal	4-20mA DC into 900 ohms max.
Zero & Span Adjustments	Accessible via digital display/keypad.
Response Time	250 ms.
Display	4-digit LCD 0.4" height; LED indicators for set point and alarm status
Serial Communications	Modbus RTU, RS485, 9600 Baud