



BL983314

Resistivity Mini Controllers

- Fire-retardant casing
- Selectable overdose protection system
- Splash-resistant cover

The BL983314 is a simple to operate resistivity controller designed for ultra pure water, reverse osmosis, and water conditioning applications. The BL983314 resistivity controller is also ideal for continuous monitoring of process solutions. Setpoint and calibration are manually adjusted with a trimmer and the alarm relay allows for simple control.

Readings are automatically temperature compensated, with three different coefficients ($\beta=2.4, 3.5$ or $4.5\ \%/^{\circ}\text{C}$). The alarm contact can be used for connection to an alarm, pump, solenoid or dosing system.

The relay contact is open when readings are higher than the setpoint, while for measurements lower than setpoint, the relay contact is closed. The hysteresis is typically $0.20\ \text{M}\Omega\cdot\text{cm}$ from the setpoint.

Measurements are displayed on the LCD and the multi-colored LED continuously indicates if the controller is in measurement, dosing, or alarm mode. Users can choose automatic or manual dosing mode with a switch on the front panel. Manual control is particularly useful during maintenance operations, because it permits operators to enable or disable the dosing relay according to need.

The overtime control system advises users when the relay is active for too long, helping to prevent overdosage.

Specifications	BL983314
Range	0.00 to 19.90 $\text{M}\Omega\cdot\text{cm}$
Resolution	0.10 $\text{M}\Omega\cdot\text{cm}$
Accuracy (@25°C/77°F)	$\pm 2\%$ F.S.
Temperature Compensation	automatic and linear from 5 to 50°C (41 to 122°F)
Temperature Coefficient	$\beta=2.4; 3.5; 4.5\ \%/^{\circ}\text{C}$ selectable through jumper on the rear panel
Calibration	factory calibrated
Dosing Relay	maximum 2A (fuse protected), 250 Vac, 30 Vdc contact closed when measure < setpoint
Setpoint	adjustable from 0 to 19.90 $\text{M}\Omega\cdot\text{cm}$
Overtime	adjustable, typically from 5 to approximately 30 minutes
Power Supply	BL983314-0: 12 VDC adapter (included) BL983314-1: 115/230 VAC; 50/60Hz
Dimensions	83 x 53 x 99 mm (3.3 x 2.1 x 3.9")
Weight	BL983314-0: 200 g (7.1 oz.) BL983314-1: 300 g (10.6 oz.)
Ordering Information	BL983314-0 (12 VDC) and BL983314-1 (115/230V) are supplied with mounting brackets, transparent cover and instruction manual.
Recommended Probe	HI3314 resistivity probe with 2 m (6.6') cable (included)

Line ID: @neonics



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