BL983314

Resistivity Mini Controllers

- Large Clear LCD
- Fire Retardant Casing
- 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.

Adjustable Dry Contact Dosing Relay

The BL983314 features a dosing relay that is activated when the reading is below a user programmable set point.

Programmable Overdose Protection

For enhanced safety the mini controller can be programmed to deactivate the dosing relay if the set point is not reached within a specified time interval. The overdosing timer is programmable from 5 to 30 minutes or disabled.

Relay Control Override

With the flick of a switch the mini controller's relay can be disabled (Off), placed in control (Auto), or be activated for manual operation (On) which is useful for priming a dosing pump.

Multicolor LED Indicator

Multicolor LED indicator allows an operator to quickly check the status of the controller. Green = Meter in measurement mode and reading is above the set point. Orange/Yellow = Reading is below the set point and the relay is activated. Blinking Red = Indicates an alarm condition such as when the maximum dosing time has been exceeded.

Fuse Protected Dosing Contacts

The relay dosing contact is rated for up to a 2A load and is fuse protected.

Labeled Termination Connections

Quick-connect terminal blocks are clearly labeled for easy connection to power, conductivity probe and relay that can be used to operate a dosing pump, valve, audible alarm, or light.

Specifications	BL983314
Range	0.00 to 19.90 MΩ•cm
Resolution	0.10 MΩ•cm
Accuracy (@25°C/ 77°F)	±2% F.S.
Temperature Compensation	automatic and linear from 5 to 50°C (41 to 122°F)
Temperature Coefficient	β=2.4 ; 3.5 ; 4.5 %/°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 MΩ•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)

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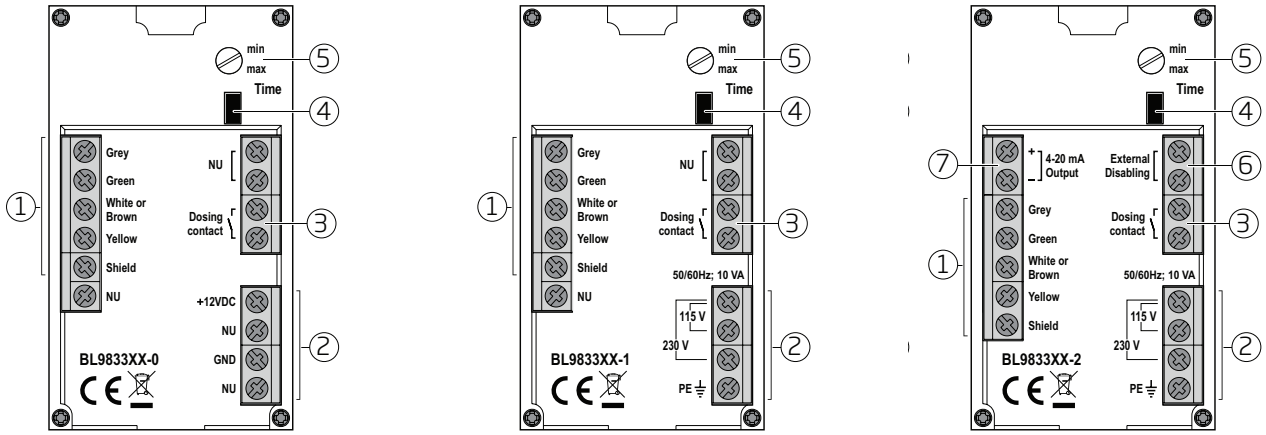
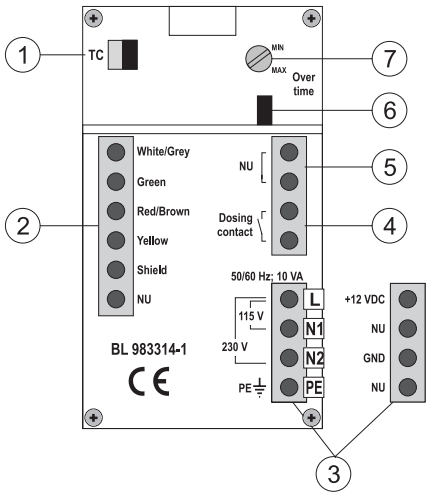
BL983313, BL983315, BL983317, BL983318, BL983319, BL983320, BL983321, BL983322, , BL983324, BL983327, BL983329



1. Probe connection terminal, low voltage connections
2. Power supply terminal
   - BL9833XX-1 & BL9833XX-2 series, high voltage connections, 115/220 VAC
   - BL9833XX-0 series, low voltage connections, 12 VDC
3. Contact acts as a switch for driving the dosing system
4. External disabling contacts
5. Jumper for enabling (jumper in) or disabling (jumper removed) the overtime control
6. Trimmer for overtime setting (between 5 and 30 minutes)
7. 4-20 mA output contacts
   - BL9833XX-2 series only
   - Follow lead markings +positive / -negative to ensure output leads are correctly wired

BL983314



1. TC jumper for selection of temperature coefficient (β)
2. Connections for HI 3314 resistivity probe
3. Power supply terminal:
   - for BL983314-0 model: 12 Vdc adapter
   - for BL983314-1 model: 115 Vac or 230 Vac option
4. This contact acts as a switch for driving the dosing system (e.g. dosing pump)
5. Not used contact
6. Jumper for enabling (jumper in) or disabling (jumper removed) the overtime control
7. Trimmer for overtime setting (typically from 5 to 30 minutes)

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