



BL983317 • BL983327

EC Mini Controllers

Measuring in mS/cm

- Large Clear LCD
- Fire Retardant Casing
- Splash-resistant cover

The BL983317 and BL983327 are compact, panel mounted, process controllers for measuring conductivity of a process stream. The device features a large LCD with protective cover. Users may choose from automatic or manual dosing modes.

BL983317 When in automatic mode the dry contact relay is activated when a reading is below the set point. The relay can be used to activate a dosing pump to add chemical until the desired set point is reached. Chemicals that can be dosed include nutrient solutions.

BL983327 When in automatic mode the dry contact relay is activated when a reading is above the set point. The relay can be used to activate a solenoid valve to open and drain a tank (i.e. boiler bleed and feed) or add freshwater until the desired set point is reached.

Adjustable Dry Contact Dosing Relay

The BL983317 features a dosing relay that is activated when the reading is below a user programmable set point.

The BL983327 features a dosing relay that is activated when the reading is above 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 (BL983317) or below (BL983327) the set point. Orange/Yellow = Reading is below (BL983317) or above (BL983327) the set point and the relay is active. 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	BL983317	BL983327
Range	0.00 to 10.00 mS/cm	
Resolution	0.01 mS/cm	
Accuracy (@25°C/77°F)	±2% F.S.	
Temperature Compensation	automatic from 5 to 50°C (41 to 122°F) with $\beta = 2\%/^{\circ}\text{C}$	
Calibration	manual, with CAL trimmer	
Dosing Relay	maximum 2A (fuse protected), 250 Vac, 30 VDC	
	contact closed when measure < setpoint	contact closed when measure > setpoint
Setpoint	adjustable from 0 to 10 mS/cm	
Overtime	adjustable, typically from 5 to approximately 30 minutes	
Power Supply	models "-0": 12 VDC adapter (included) models "-1": 115/230 VAC; 50/60Hz	
Dimensions	83 x 53 x 99 mm (3.3 x 2.1 x 3.9")	
Weight	models "-0": 200 g (7.1 oz.) models "-1": 300 g (10.6 oz.)	
Ordering Information	BL983317-0 (12 VDC), BL983317-1 (115/230V), BL983327-0 (12 VDC) and BL983327-1 (115/230V) are supplied with mounting brackets, transparent cover and instruction manual.	
Recommended Probe	HI7632-00 EC/TDS probe with internal temperature sensor and 2 m (6.6') cable (not included).	