

BL983317 • BL983327

EC Mini Controllers

Measuring in mS/cm

- Models available with 4-20 mA galvanic isolated output with external dosing disable contact
- 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	±2% f.s. at 25 °C (77 °F)		
Temperature Compensation	automatic, from 5 to 50°C (41 to 122°F) with $\beta=2\%/^{\circ}\text{C}$		
Calibration	manual, with calibration trimmer		
Output	galvanic isolated 4-20 mA output; accuracy ±0.2 mA; 500 Ω maximum load (BL9833XX-2 only)		
Dosing	adjustable setpoint	adjustable setpoint: covers measure range	
	relay	relay closes when reading < setpoint	relay closes when reading > setpoint
	dosing contact	maximum 2A (internal fuse protection), 250 VAC or 30 VDC	
	overtime	dosing relay is disabled if setpoint is not reached within the set time interval. Timer adjustable between approx. 5 to 30 minutes, or disabled by jumper.	
	external disable input	Normally Open: enable / Closed: disable dosing (BL9833XX-2 only)	
Power Supply	models "-0": 12 VDC adapter (included) models "-1": 115/230 VAC, 50/60Hz models "-2": 115/230 VAC, 4-20 mA Output input: 10 VA for 115/230 VAC, 50/60 Hz models; 3 W for 12 VDC models; fuse protected; installation category II.		
Dimensions	83 x 53 x 99 mm (3.3 x 2.1 x 3.9")		
Weight	12 VDC models, 200 g (7.1 oz); 115/230 VAC models 300 g (10.6 oz)		
Ordering Information	BL983317-0 (12 VDC), BL983317-1 (115/230 VAC), BL983317-2 (115/230 VAC, 4-20 mA Output), BL983327-0 (12 VDC), BL983327-1 (115/230 VAC), BL983327-2 (115/230 VAC, 4-20 mA Output) are supplied with mounting brackets, transparent cover and quick reference guide with instrument quality certificate.		
Recommended Probe	HI7632-00 EC/TDS probe with internal temperature sensor and 2 m (6.6') cable (not included). HI7632-00/6 EC/TDS probe with internal temperature sensor and 6 m (19.7') cable (not included).		

See EC/TDS probes and cable lengths on page 15.90; EC solutions begin on page 5.36; see rear connections on page 15.93