

BL983318

TDS Mini Controllers

0 to 10,000 ppm

- Large Clear LCD
- Fire Retardant Casing
- Splash-Resistant Cover

The BL983318 is a compact, panel mounted, process controller for measuring total dissolved solids (TDS) of a process stream. The device features a large LCD with protective cover. Users may choose from automatic or manual dosing modes. 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. The BL983318 uses a 0.5 conversion factor in which 1.00 mS/cm = 0.50 ppt. The BL983318 can measure TDS from 0.00 to 10.00 ppt (g/L).

Adjustable Dry Contact Dosing Relay

The BL983318 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 below the set point. Orange/Yellow = Reading is above 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	BL983318	
Range	0.00 to 10.00 g/L (ppt)	
Resolution	0.01 g/L (ppt)	
Accuracy	±2% f.s. at 25 °C (77 °F)	
TDS Factor	0.5	
Temperature Compensation	automatic from 5 to 50°C (41 to 122°F) with $\beta = 2\%/^{\circ}\text{C}$	
Calibration	manual, with calibration trimmer	
Dosing	adjustable setpoint	covers measure range
	relay	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.
Power Supply	models "-0": 12 VDC adapter (included) models "-1": 115/230 VAC; 50/60Hz 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	BL983318-0 (12 VDC) and BL983318-1 (115/230 VAC) 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).	