

TDS Mini Controllers

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

The BL983324 is a compact, panel mounted, process controller for measuring total dissolved solids (TDS) of a process stream that is within the 0.0 to 49.9 ppm (mg/L) range. 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 supply power to a dosing pump or a solenoid connected to a valve. The BL983324 can also be used to monitor the quality of water produced from ion exchange, reverse osmosis (RO) or distillation.

The BL983324 uses a 0.5 conversion factor in which $1.0 \mu\text{S}/\text{cm} = 0.5 \text{ ppm}$.

Adjustable Dry Contact Dosing Relay

The BL983324 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 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	BL983324
Range	0.0 to 49.9 mg/L (ppm)
Resolution	0.1 mg/L (ppm)
Accuracy (@25°C/77°F)	±2% F.S.
TDS Conversion Factor	0.5
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
Setpoint	adjustable from 0 to 49.9 mg/L (ppm)
Overtime	adjustable, typically from 5 to approximately 30 minutes
Power Supply	BL983324-0: 12 VDC adapter (included) BL983324-1: 115/230 VAC; 50/60Hz
Dimensions	83 x 53 x 99 mm (3.3 x 2.1 x 3.9")
Weight	BL983324-0: 200 g (7.1 oz.) BL983324-1: 300 g (10.6 oz.)
Ordering Information	BL983324-0 (12 VDC) and BL983324-1 (115/230V) are supplied with mounting brackets, transparent cover and instruction manual.
Recommended Probe	HI7634-00 EC/TDS probe with internal temperature sensor and 2 m (6.6') cable (not included).