

EC Mini Controllers

Measuring in $\mu\text{S}/\text{cm}$

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

These compact, panel mounted, process controllers are for measuring electrolytic conductivity (EC) of a process stream. 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.

HI983313's relay can be used to activate a dosing pump or a solenoid that controls a valve. HI983313 is Ideal for source water or rinse water applications.

BL983320's relay can be used to activate a solenoid that switches from one DI (deionized) tank to another or to open a valve that will allow lower EC water to flow into a tank being monitored in order to lower its EC. The BL983320 can also be used to monitor the quality of water produced from ion exchange, reverse osmosis (RO) or distillation.

BL983322's relay can be used to activate a solenoid that switches from one DI (deionized) tank to another or to open a valve that will allow lower EC water to flow into a tank being monitored in order to lower its EC. The BL983322 can also be used to monitor the quality of water from DI tanks or from a distillation apparatus.

Adjustable Dry Contact Dosing Relay

These mini controllers feature 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	BL983313	BL983320	BL983322
Range	0 to 1999 $\mu\text{S}/\text{cm}$	0.0 to 199.9 $\mu\text{S}/\text{cm}$	0.00 to 19.99 $\mu\text{S}/\text{cm}$
Resolution	1 $\mu\text{S}/\text{cm}$	0.1 $\mu\text{S}/\text{cm}$	0.01 $\mu\text{S}/\text{cm}$
Accuracy (@25°C/77°F)	±2% F.S.	±2% F.S.	±2% F.S.
Setpoint	adjustable from 0 to 1999 $\mu\text{S}/\text{cm}$	adjustable from 0 to 199.9 $\mu\text{S}/\text{cm}$	adjustable from 0 to 19.99 $\mu\text{S}/\text{cm}$
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		
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	BL983313-0 (12 VDC), BL983313-1 (115/230V), BL983320-0 (12 VDC), BL983320-1 (115/230V), BL983322-0 (12 VDC) and BL983322-1 (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).		