

Specifications		BL983313	BL983320	BL983322
Range		0 to 1999 μS/cm	0.0 to 199.9 μS/cm	0.00 to 19.99 µS/cm
Resolution		1μS/cm	0.1 μS/cm	0.01 μS/cm
Accuracy		±2% f.s. at 25 °C (77 °F)		
Temperature Compensation		automatic from 5 to 50°C (41 to 122°F) with β =2%/°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	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 aprox. 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		BL983313-0 (12 VDC), BL983313-1 (115/230 VAC), BL983313-2 (115/230 VAC, 4-20 mA Output), BL983320-0 (12 VDC), BL983320-1 (115/230 VAC), BL983320-2 (115/230 VAC, 4-20 mA Output) BL983322-0 (12 VDC) and BL983322-1 (115/230 VAC) and BL983322-2 (115/230 VAC, 4-20 mA Output) are supplied with mounting brackets, transparent cover and quick reference guide with instrument quality certificate.		
Recommended Probe		HI7634-00 EC/TDS probe with internal temperature sensor and 2 m (6.6') cable (not included).  HI7634-00/4 EC/TDS probe with internal temperature		
		sensor and 4 m (13.1') cable (not included).		
		HI7634-00/5 EC/TDS probe with internal temperature		

BL983313 • BL983320 • BL983322

# **EC Mini Controllers**

Measuring in µS/cm

- Models available with 4-20 mA galvanic isolated output with external dosing disable contact
- 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.



sensor and 5 m (16.4') cable (not included).