

Specifications		BL983315	BL983319	BL983321	BL983329
Range		0.0 to 199.9 mg/L (ppm)	0 to 1999 mg/L (ppm)	0.00 to 19.99 mg/L (ppm)	0 to 999 mg/L (ppm)
Resolution		0.1 mg/L (ppm)	1 mg/L (ppm)	0.01 mg/L (ppm)	1 mg/L (ppm)
Accuracy		±2% f.s. at 25 °C (77 °F)			
TDS Factor		0.5	0.65	0.5	0.5
Temperature Compensation		automatic from 5 to 50°C (41 to 122°F) with β =2%/°C			
Calibration		manual, with calibration trimmer			
Output		$galvanic isolated 4-20mA output; accuracy \pm 0.2mA; 500\Omegamaximum load (BL9833XX-2only)$			
Dosing	adjustable setpoint	adjustable setpoint: covers measure range			
	relay	relay closes when reading > setpoint	relay closes when reading < setpoint	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 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		BL983315-0 (12 VDC), BL983315-1 (115/230 VAC), BL983315-2 (115/230 VAC, 4-20 mA Output), BL983319-0 (12 VDC), BL983319-1 (115/230 VAC), BL983319-2 (115/230 VAC, 4-20 mA Output), BL983321-0 (12 VDC), BL983321-1 (115/230 VAC), BL983329-0 (12 VDC), BL983329-1 (115/230 VAC), and BL983329-2 (115/230 VAC, 4-20 mA Output), are supplied with mounting brackets transparent cover and guick reference quide with instrument quality certificate.			
Recommended Probe		HI7634-00 EC/TDS probe with internal temperature sensor and 2 m (6.6') cable (not incl.)			
		HI7634-00/4 EC/TDS probe with internal temperature sensor and 4 m (13.1') cable (not incl.).			
		HI7634-00/5 EC/TDS probe with internal temperature sensor and 5 m (16.4') cable (not incl.).			

See EC/TDS probes and cable lengths on page 15.90; TDS solutions begin on page 5.41; see rear connections on page 15.93

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BL983315 • BL983319 BL983321 • BL983329

TDS Mini Controllers

- 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 total dissolved solids (TDS) of a process stream. The controllers feature a large LCD with protective cover. Users may choose from automatic or manual dosing modes.

BL983315: 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 BL983315 can also be used to monitor the quality of water produced from ion exchange, reverse osmosis (RO) or distillation.

BL983315 uses a 0.5 conversion factor in which $1.0 \,\mu\text{S/cm} = 0.5 \,\text{ppm}$.

BL983319: When in automatic mode, the dry contact relay is activated when a reading is below the set point. The relay can be used to supply power to a dosing pump to add fertilizer to a nutrient solution in order to maintain an ideal concentration.

BL983319 uses a 0.65 conversion factor in which 100 μ S/cm = 65 ppm.

BL983321: 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 that switches from one DI (deionized) tank to another or to open a valve that will allow lower TDS water to flow into a tank being monitored in order to lower its TDS. The BL983321 can also be used to monitor the quality of water produced from ion exchange, reverse osmosis (RO) or distillation.

BL983321 uses a 0.5 conversion factor in which $1.00 \mu S/cm = 0.50 ppm$.

BL983329: 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.

BL983329 uses a 0.5 conversion factor in which 100 μ S/cm = 50 ppm.







High Range Probe for EC/TDS Mini Controllers (mS/cm and ppt)

- Two-pole amperometric probe
- Internal temperature sensor
- High range measurement (mS/cm and ppt)

The HI7632-00 is a two-pole amperometric EC/TDS probe for panel mounted mini controllers that measure in the high range (mS/cm and ppt). This probe has a built-in temperature sensor for Automatic Temperature Compensation and a ½" male NPT threaded connection for insertion mounting. The HI7632-00 probe provides a rapid response and high accuracy EC or TDS measurement.

Specifications	HI7632-00		
Туре	Two-pole Amperometric		
NTC Sensor	4.7 ΚΩ		
Cell Constant	1 cm ⁻¹		
Materials	PVC body; AISI 316 electrodes		
Temperature	5 to 50 °C (41 to 122 °F)		
Maximum Pressure	3 bar		
Probe Length	64 mm (2.5")		
Connection	1/2" NPT thread		
Cable Length	2 m (6.6') and 6 m (19.7') available		
Ordering Information	HI7632-00 with 2 m (6.6') of cable attached HI7632-00/6 with 6 m (19.7') of cable attached		
Recommended Controllers	BL983317, BL983318, BL983327		

Low Range Probe for EC/TDS Mini Controllers (µS/cm and ppm)

- Two-pole amperometric probe
- Internal temperature sensor
- Low range measurement (µS/cm and ppm)

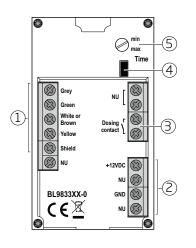
The HI7634-00 is a two-pole amperometric EC/TDS probe for panel mounted mini controllers that measure in the low range (µS/cm and ppm). This probe has a built-in temperature sensor for Automatic Temperature Compensation and a ½" male NPT threaded connection for insertion mounting. The HI7634-00 probe provides a rapid response and high accuracy EC or TDS measurement.

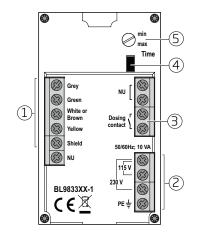
Specifications	HI7634-00		
Туре	Two-pole Amperometric		
NTC Sensor	9.4 ΚΩ		
Cell Constant	1 cm·1		
Materials	PVC body; AISI 316 electrodes		
Temperature	5 to 50 °C (41 to 122 °F)		
Maximum Pressure	3 bar		
Probe Length	64 mm (2.5")		
Connection	1/2" NPT thread		
Cable Length	2 m (6.6'), 4 m (13.1'), and 5 m (16.4') available		
Ordering Information	HI7634-00 with 2 m (6.6') of cable attached HI7634-00/4 with 4 m (13.1') of cable attached HI7634-00/5 with 5 m (16.4') of cable attached		
Recommended Controllers	BL983313, BL983315, BL983319, BL983320, BL983321, BL983322, BL983324, BL983329		

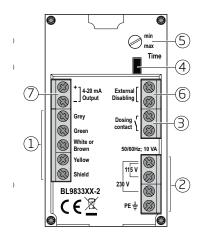




BL983313, BL983315, BL983317, BL983318, BL983319, BL983320, BL983321, BL983322, , BL983324, BL983327, BL983329

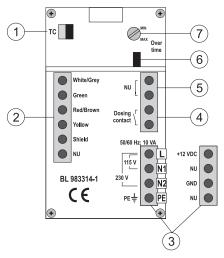






- Probe connection terminal, low voltage connections
- Power supply terminal
 - BL9833XX-1 & BL9833XX-2 series, high voltage connections, 115/220 VAC
 BL9833XX-0 series, low voltage connections, 12 VDC
- Contact acts as a switch for driving the dosing system
- External disabling contacts
 Jumper for enabling (jumper in) or disabling (jumper removed) the overtime control
- Trimmer for overtime setting (between 5 and 30 minutes)
- 4-20 mA output contacts
 BL9833XX-2 series only
- Follow lead markings +positive / -negative to ensure output leads are correctly wired

BL983314



- TC jumper for selection of temperature coefficient (β)
- Connections for HI 3314 resistivity probe
- Power supply terminal:
 for BL983314-0 model: 12 Vdc adapter
- for BL983314-1 model: 115 Vac or 230 Vac option
- 4. This contact acts as a switch for driving the dosing system
- (e.g. dosing pump)
- Not used contact
- Jumper for enabling (jumper in) or disabling (jumper removed) the overtime control
- Trimmer for overtime setting (typically from 5 to 30 minutes)

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