

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.

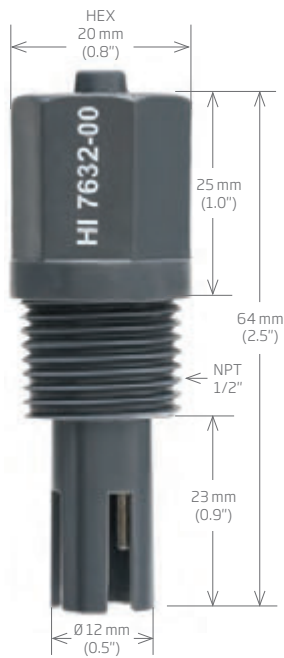


| Specifications | BL983318 | |
|--------------------------|---|--|
| Range | 0.00 to 10.00 g/L (ppt) | |
| Resolution | 0.01 g/L (ppt) | |
| Accuracy | ±2% f.s. at 25 °C (77 °F) | |
| TDS Factor | 0.5 | |
| Temperature Compensation | automatic from 5 to 50°C (41 to 122°F) with $\beta = 2\%/^{\circ}\text{C}$ | |
| 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). | |

ติดต่อบริษัท นีโอนิคส์ จำกัด

Tel: 098-479-5684 หรือ 061-8268939

E-mail: sale@tools.in.th เว็บไซต์ www.tools.in.th

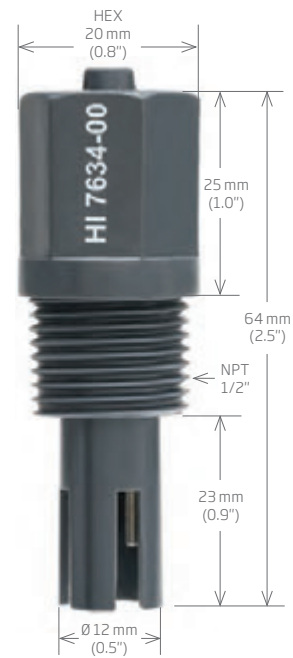


High Range Probe for EC/TDS Mini Controllers (mS/cm and ppt)

- 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 |
|--------------------------------|---|
| Type | Two-pole Amperometric |
| NTC Sensor | 4.7 KΩ |
| 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 | ½" 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 |
|--------------------------------|--|
| Type | Two-pole Amperometric |
| NTC Sensor | 9.4 KΩ |
| 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 | ½" 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 |

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