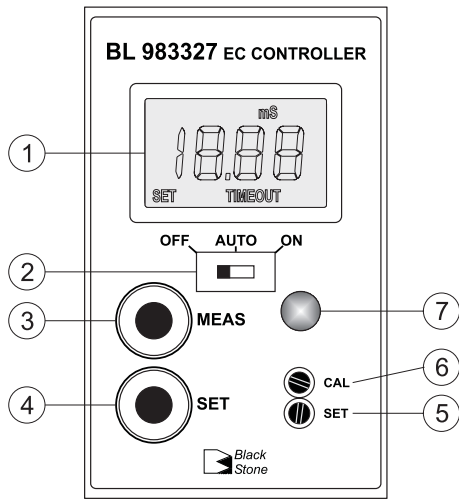


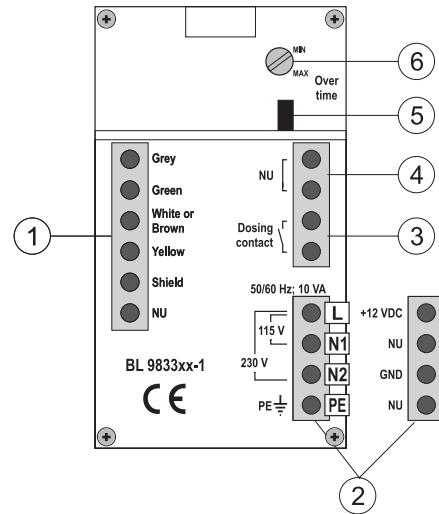
FUNCTIONAL DESCRIPTION

Front panel



1. Liquid Crystal Display
2. Switch for selecting dosing mode:
 - OFF = dosing disabled
 - Auto = automatic dosage, depending on setpoint value
 - ON = dosing always active
3. "MEAS" key to set the instrument to measurement mode
4. "SET" key to display and set the setpoint value
5. "SET" trimmer to adjust the setpoint value
6. "CAL" trimmer
7. 3-colour LED indicator:
 - Green = meter in measurement mode
 - Orange/Yellow = dosing in progress
 - Red, blinking = indicates an alarm condition

Rear panel



1. Connections for EC probe
2. Power supply terminal:
 - for BL983327-0 model: 12 Vdc adapter
 - for BL983327-1 model: 115 Vac or 230 Vac option
3. This contact acts as a switch for driving the dosing system (e.g. dosing pump)
4. Not used contact
5. Jumper for enabling (jumper in) or disabling (jumper removed) the overtime control
6. Trimmer for overtime setting (typically from 5 to 30 minutes)



All external cables connected to the rear panel should end with cable lugs.



A circuit breaker (rated 6A max.) must be connected in close proximity to the equipment, and in a position easy to reach by the operator, for disconnection of the instrument and of all the devices connected to the relays.

OPERATIONS

REAR PANEL CONNECTIONS

Terminals #1: Probe

- Connect the HI 7632-00 probe by following the wires colour indications.

Terminals #2: Power Supply

- Model BL983327-0: connect the 2 wires of a 12 Vdc power adapter to the terminals +12 Vdc and GND.
- Model BL983327-1: connect a 3-wire power cable to the terminals while paying attention to the correct earth (PE), line (L) and neutral (N1 for 115 V or N2 for 230 V) contacts.

Terminals #3: Dosing Contact

- This contact drives the dosing system, accordingly to the selected setpoint.

Note: The setpoint has a typical hysteresis value comparable to the meter accuracy.

Terminals #4: Not Used Contact

Overtime system: jumper (#5) and trimmer (#6)

- This system allows the user to set a maximum dosing period, by adjusting the rear trimmer from 5 (min) to approx. 30 (max) minutes.
- When the set time is exceeded, any dosing action stops, the LED indicator on the front panel will blink Red and the LCD will show the "TIMEOUT" warning message. To exit the overtime condition, set the OFF/Auto/ON switch to "OFF" position, and then to "Auto" again.
- For disabling the overtime feature, simply remove the jumper on the rear panel.

Note: The overtime system works only if the OFF/Auto/ON switch is in "Auto" position.

OPERATING THE METER

Before proceeding make sure that:

- the meter has been calibrated;
- the setpoint value has been properly adjusted;
- all rear panel wiring and selections are correct;
- the Auto/OFF/ON switch is in the desired position.

Install or immerse the probe in the solution to be monitored, then press the "MEAS" key (if necessary).

The LCD will show the EC (mS/cm) value. The LED indicator will light up Green when the meter is in measurement mode and dosing is not active, while will light up Orange/Yellow for signaling that a dosing action is in progress.

CALIBRATION

To calibrate the meter, proceed as follows:

- ensure the meter is in measurement mode;
- immerse the probe in HI 7039 calibration solution (mS/cm);
- shake briefly and wait for reading to stabilize;
- adjust the "CAL" trimmer to read "5.00 mS"

SETPOINT

Press the "SET" key: the display will show the previously adjusted value, together with the "SET" key. Using a small screwdriver adjust the "SET" trimmer until the desired setpoint value is displayed.

After 1 minute the meter automatically returns to mode; or press the "MEAS" key.

PROBE MAINTENANCE

To improve the probe performance and prolong its life, it is recommended to clean it regularly.

- Immerse the tip of the probe in HI 704 Solution at least for one hour.
- If a more thorough cleaning is required, brush the probe tip with very fine sandpaper.
- After cleaning, rinse the probe with tap water and recalibrate the meter.
- When not in use, clean the probe before storage.