Limited Warranty

[PANEL CUT-OUT SIZE DIAGRAM]

USER'S GUIDE

PSC-50

www.HMDigital.com

Ver 2.0
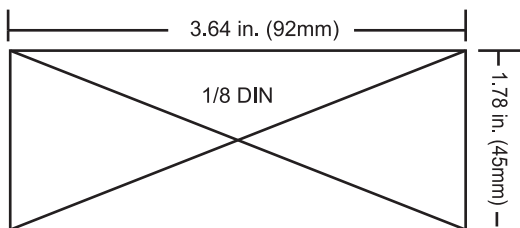
[Display Temperature]

Press [CAL] + [UNIT/MUTE] button simultaneously for 2 sec. in Regular mode to display temperature. Press [UNIT/MUTE] button to select C/F Press [ENTER/SET] button to return to operations mode.
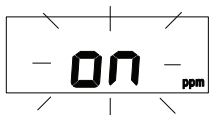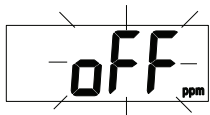
[Setting Relay]

– Relay value will convert automatically according to Factor in each scale. Showing example applies to 150ppm.

1. Press [ENTER/SET] button for 2 sec.
2. With "oFF" display Press [UNIT/MUTE] button once. "oFF" display will change to "on".
▶ **Press**
  [ENTER/SET] with "oFF" when Relay is not in use.
3. Red LED blinks when displaying "on"

4. Press [ENTER/SET] to display the previously stored value

5. Press [CAL] button to reach desired value. Press and hold accelerates the process.

6. Press [ENTER/SET] button shortly after set the desired value to save and return to Regular Mode with blinking "End" 3 times.

[Mute Alarm]
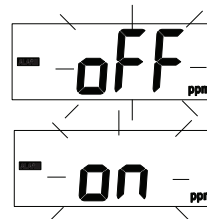

▶ **Mute Alarm Sound.**
  – Press [UNIT/MUTE] button 2 sec. in operations Mode with blinking "oFF" 3 times. Alarm icon and Relay will show without alarm sound.
  – Pressing button again to changes to "ON" – Relay resetting and Power ON/OFF returns to 'ON'.

[Initializing]

▶ **Reset Relay Value**
1. Press [ENTER/SET] button for 2 sec. to enter the Setting Mode
2. With "on" or "oFF" displaying, Press [CAL] + [UNIT/MUTE] buttons simultaneouly for 3 sec. to display blinking "CLr" 3 times and return to operations mode.

▶ **Reset EC, TDS Calibration**
1. Press [CAL] button for 5 sec. to enter the Calibration Mode.
2. Press [CAL] + [UNIT/MUTE] buttons simultaneouly for 3 sec. to return to operations Mode with blinking "CLr" 3 times.

▶ **Reset Temperature Calibration**
1. Press [CAL] + [UNIT/MUTE] buttons simultaneously for 2 sec. to enter the Temperature Mode.
2. Press [CAL] button for 5 sec. to enter the Calibration mode and Press [CAL] + [UNIT/MUTE] buttons simultaneously for 3 sec.
3. With "CLr" blinks 3 times, returns to operations mode.

Thank you for purchasing HM Digital's PSC-50. The TDS/EC controller has a maximum set point to help maintain a limit of TDS/EC allowed in the water. If the TDS/EC level rises to the set poit, the controller will activate an alarm and switch the relay. Once the TDS/EC level drops below the set poit, this will deactivate the alarm and switch the relay contacts back to the normal position.
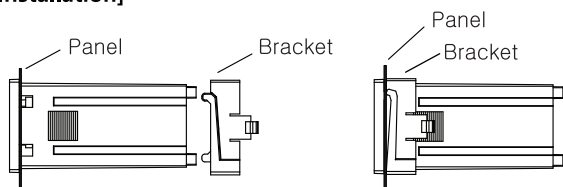
[BOX CONTENTS]

1. Controller with Mounting barcket
2. Sensor and Cable
3. Power cord and U.S. plug adapter
4. User's Guide

[Specification]

EC Range: 0~9999uS/cm / 0~20.00mS/cm

TDS Range: 0~9999ppm(mg/L) / 0~10.00ppt(g/L)

Resolution: uS & ppm: 0.1(0.0~99.9) , 1(100~9999), mS & ppt: 0.01

Accuracy: ±1.5% (FS)

ATC Range: Automatic (Temperature Compensation) 1~60℃

Calibration: Digital by push Button

Relay: 1 Point relay setting. Trigger relay when detects exceed value

Alarm: Beep sounds when exceed pre-set relay range (+Mute Function)

Display: 2.3" LCD, Backlight function

Sensor: Single ABS sensor (1/2" NPTF bushing)

Cable: 3m(9.8ft) shielded cable

Power Supply: 110V/220V, ±10% VAC; 50/60Hz

Dimensions: 96 x 48 x 100 mm (3.8 x 1.9 x 3.9 in)

Monitor Weight: 261g (9.2 oz)

[Display Festures]

- LED light for relay
- Measurement Reading
- Scale(mS,ppt,uS,ppm)
- Alarm
- Caliberation
- Setting
- ENTER SET
- CAL ▲ UP (Increase value)
- UNIT MUTE ▼ DOWN (Decrease)
- Switch Button
- EC & TDS Controller
- PSC-50

- Relay Terminal
- SENSOR: BLUE, RED, WHITE, BLACK
- RELAY: N.O, COM, N.C
- 100~220V: AC, AC
- Black(Temp. Sensor)
- White(Temp. Sensor)
- Red(EC/TDS Sensor)
- Blue(EC/TDS Sensor)
- Power plug-in (110V/220V)

[Installation]

Panel, Bracket, Panel, Bracket

1. Remove Bracket by pulling tabs outward and slide off.
2. Place the product in designated space.
3. Insert the bracket to fix.
4. Insert sensors cable to matching colored terminal and tighten with flat-head screwdriver.
5. Opt. and connect relay method from N.O with COM or N.C with COM.
6. Connect to 110V or 220V power source.
7. Product needs 3 min. of stabilizing period after initial power connect.

[Setting Scale]

– Press [UNIT MUTE] button after plug-in.
– Pressing button convert the scale from ppm -> mS -> ppt -> uS.

[Calibration]

– 3 min. of stabilizing period is required before calibration.
– Prepare buffer-solution before calibration.
  There are two ways of calibration;
  1. Calibrate with the water from actual pipe with sensor connected which has been measured with TDS or EC meter.
 2. Calibrate by submerging in a sensor in buffer-solution. Below direction uses 342ppm sample.
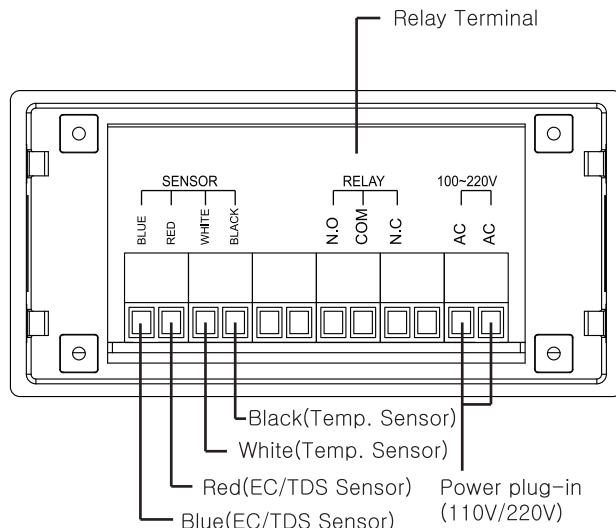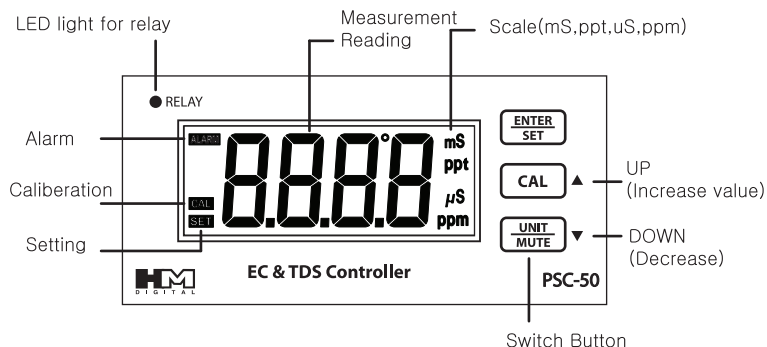
1. Choose ppm scale.
2. Press [CAL] button 5 sec.

3. 'CAL' and 'SET' icon will be blinking.
4. Press [UNIT MUTE] button to set the desired calibration value. (if hold the button, accelerates the value.)

5. Press [ENTER SET] after the desired value has been reached to display blinking 'CAL' icon and set value.
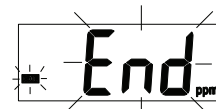
6. "End" icon blinks 3 times and the controller returns to operations mode after calibration.

7. Use the product after calibration.

▶ Calibration is possible at different scales.

[Temperature Calibration]

Press [CAL] + [UNIT MUTE] buttons simultaneously for 2 sec. to display temperature. Press [CAL] button for 5 sec. to display blinking 'CAL' and 'SET' icons. Press [UP] or [DOWN] button to set the desired temperature and Press [ENTER SET] button to store the value with "End" displaying.