WARRANTY

ONE YEAR LIMITED WARRANTY

The PC-100, including both the controller and sensor, is warranted by HM Digital, Inc. ("the Company") to the purchaser against defective materials and workmanship for one (1) year from the date of purchase.

What is covered: Repair parts and labor, or replacement at the Company's option. Transportation charges for repaired of new product to be returned to the purchaser.

What is not covered: Transportation charges for the defective product to be sent to the Company. Any consequential damages, incidental damages, or incidental expenses, including damages to property. This includes damages from abuse or improper maintenance such as tampering, wear and tear, water damage, or any other physical damage. The Company's products are not waterproof and should not be fully submerged in water. Products with any evidence of such damage will not be repaired or replaced. See additional note below.

How to obtain warranty performance: Attach to the product your name, address, description of problem, phone number, and proof of date of purchase, package and return to:

HM Digital, Inc.
5819 Uplander Way
Culver City, CA 90230

Implied Warranties: Any implied warranties, including implied warranties of merchantability and fitness for a particular purpose, are limited in duration to five years from date of purchase. Some states do not allow limitations on how long an implied warranty lasts, so the above limitation may not apply to you. To the extent any provision of this warranty is prohibited by federal and state law and cannot be preempted, it shall not be applicable. This warranty gives you specific legal rights, and you may also have other rights, which vary from state to state.

NOTE: Warranties are product-specific. Third-party products and products deemed by HM Digital as "accessories" are not covered under warranty. Third-party products include, but are not limited to, batteries and fittings. Accessories include, but are not limited to, precipitator rods, fuses and product cases.

This manual and all information contained herein copyright HM Digital, Inc.
An extended version of this manual can be downloaded at www.tdsmeter.com/products/usersguidepc100.pdf

USER'S GUIDE

PC-100
CONDUCTIVITY CONTROLLER

OVERVIEW

Thank you for purchasing HM Digital's PC-100. The PC-100 is a conductivity controller that monitors and controls the conductivity levels of a single water line. If the conductivity levels reach the user-determined set-point, the controller will send an analog signal (via relay switch) to stop a valve or pump and sound an optional alarm.

CONTACT INFORMATION

If you have any problems or questions regarding your meter, please contact HM Digital, Inc.

HM Digital, Inc.
5819 Uplander Way
Culver City, CA 90230

info@hmdigital.com
www.tdsmeter.com
1-800-383-2777

SPECIFICATIONS

Electrical Conductivity Range: 0 - 999 μS
Resolution: 1 ppm
Accuracy: +/- 2% F.S.
Temperature Compensation: Automatic (ATC) (1-65^{o} Celsius)
Calibration: Manually adjustable (factory calibrated at 342 ppm NaCl)
Set-Point: Controlled by on-screen up/down buttons
Relay Control: The unit will send an analog signal to a pump/valve when the μS levels reach the set point.
Alarm: Optional steady beep (set by user)
Probe: ½" bushing, 3 meter (9.8 ft) shielded cable)
Display: Bright 5/8" L.E.D.
Power supply: AC 110V / AC 220V
Dimensions: 7.2 x 7.2 x 10.2 cm (2.8 x 2.8 x 4 in.)
Monitor Weight: 476 grams (1 lb .8 oz)

BOX CONTENTS

1. Controller
2. Sensor
3. Sensor cable (gray)
4. Power cord (black)
5. Mounting brackets

INSTALLATION INSTRUCTIONS

1. Remove the contents from the box.
2. View the diagram on the side of the controller.
3. Connect the black power cord to the outputs numbered 8 and 9. Screw in tight with a Phillips head screwdriver. It does not matter which color wire is connected to the outputs. (Note – If in the United States, connect the plug adapter to the power cord).
4. Connect the gray sensor cable by attaching the white wire to output #1, the red to #2 and the black to #3.
5. Align the pins of the sensor to the cable and attach. Screw the tightening ring closed.
6. If the pump relay switch is already on, connect the pump relay cord (not included) to outputs #13 and #14 only.
7. Insert the mounting brackets into the grooves on the bottom and top of the controller. Fasten the brackets with the included screws.
8. Mount the controller to the panel.
9. Insert the sensor electrode into a ½" T-fitting.
10. To DEACTIVATE the audible alarm, disconnect the wires from outputs #10 and #11.
11. Plug the power cord into an electrical outlet.

USAGE INSTRUCTIONS

1. The controller will turn on when the power cord is plugged into an electrical outlet.
2. Open the cover on the front of the controller by gently pulling down.
3. The controller comes factory calibrated to a 342 ppm NaCl solution. If you wish to recalibrate, you can do so by inserting a screwdriver into the calibration trimmer pot. Turning clockwise will increase the reading; turning counter-clockwise will decrease the reading.
4. To adjust the set point, press the 'SET' button. The reading will flash on the display. Use the UP and DOWN buttons to adjust the reading. Pressing the button will advance the reading by a single digit. Holding the button down will advance the reading quickly.
5. When the reading is at the desired set point, press the 'SET' button again. This will save the set point.
6. If the μS levels reach the saved set point, the controller will send an analog signal (via a relay switch) to the pump or valve that is attached to inputs #12 and #13.
7. To turn off the audible alarm, disconnect a wire from inputs #10 or #11.
8. To turn off the controller, unplug it from the electrical outlet.

NOTE: It is advisable to test the set point and relay control prior to installing it on a water line.

Cleaning:

To clean the electrodes, use rubbing alcohol and a cotton swab. Lightly clean the electrodes. Rinse with DI or distilled water. Air dry.

Electrode Replacement:

If your electrode has been damaged, you can purchase a new one without having to purchase a new controller. Contact HM Digital or your authorized HM Digital distributor.