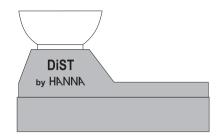
Instruction Manual

DIST[®] 7 & DIST[®] 8

EC/TDS & Temperature meters





WARRANTY

DiST® 7 & DiST® 8 are warranted for one year against defects in workmanship and materials when used for their intended purpose and maintained according to instructions. This warranty is limited to repair or replacement free of charae. Damages due to accident, misuse, tampering or lack of prescribed maintenance are not covered. If service is required, contact the dealer from whom you purchased the instrument. If under warranty, report the model number, date of purchase, serial number and the nature of the failure. If the repair is not covered by the warranty, you will be notified of the charges incurred. If the instrument is to be returned to Hanna Instruments, first obtain a Returned Goods Authorization Number from the Customer Service department and then send it with shipment costs prepaid. When shipping any instrument, make sure it is properly packaged for complete protection.

All rights are reserved. Reproduction in whole or in part is prohibited without the written consent of the copyright owner.

Hanna Instruments reserves the right to modify the design, construction and appearance of its products without advance notice.

Dear Customer

Thank you for choosing a Hanna product. Please read carefully this instruction manual before using the meter. If you need additional technical information, do not hesitate to e-mail us at tech@hannainst.com. These instruments are in compliance with the CE directives.

PRELIMINARY EXAMINATION

Remove the instrument from the packing material and examine it carefully. If any damage has occurred during shipment, immediately notify vour Dealer or the nearest Hanna Customer Service Center.

Each meter is supplied complete with:

- Calibration solution, 20 mL sachet HI 70031 (1413 µS/cm) for DiST® 7 HI 70030 (12.88 mS/cm) for DiST® 8
- 4 x 1.5V AA batteries
- Instruction manual

or °F units.

Note: Conserve all packing material until the instrument has been observed to function correctly. Any defective item must be returned in its original packing.

GENERAL DESCRIPTION

meters specially designed for analytical field applications.

These meters provide fast, accurate, on-the-spot measure-

All EC/TDS readings are automatically temperature compen-

sated (ATC), and temperature values can be displayed in °C

The EC/TDS conversion factor (CONV) is selectable by the user,

as well as the temperature compensation coefficient b (BETA).

A low battery symbol warns the user when the batteries are

to be replaced. In addition, the Battery Error Prevention System (BEPS) automatically turns the meter off for avoiding

The built-in temperature and conductivity sensors are pro-

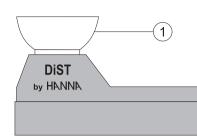
The meters can be easily calibrated at one point.

erroneous readings caused by low voltage level.

tected inside the cell cup.

ments, with a unique stability indicator right on the LCD.

FUNCTIONAL DESCRIPTION



TOP VIEW 2 5 8888 SET/HOLD 8888 CAL 4 3

- 1. Cell cup
- 3. ON/OFF/MODE button
- 4. Low battery indicator
- 5. Stability indicator

SPECIFICATIONS

0.0 to 60.0°C / 32.0 to 140.0°F	
0 to 3999 µS/cm / 0 to 2000 ppm	
0.00 to 20.00 mS/cm / 0.00 to 10.00 ppt	
0.1°C / 0.1°F	
1 μS/cm / 1 ppm	
0.01 mS/cm / 0.01 ppt	
$\pm 0.5^{\circ}C/\pm 1^{\circ}F$	
$\pm 2\%$ f.s. (EC/TDS)	
$\frac{\pm 2.761.33}{(\pm 0.105)}$	
$\pm 2\%$ f.s. (EC/TDS)	
Automatic,	
with β adjustable from 0.0 to 2.4%/°C	
Adjustable from 0.45 to 1.00 (CONV)	
Automatic, 1 point	
Calibration Solutions	
HI 7031 (1413 μS/cm)	
HI 7032 (1382 ppm with CONV=0.5)	
HI 70442 (1500 ppm with CONV=0.7)	
HI 7030 (12.88 mS/cm)	
HI 70038 (6.44 ppt with CONV=0.5	
or 9.02 ppt with CONV=0.7)	
0 to 50°C (32 to 122°F); RH 100%	
4 x 1.5V AA	
Approx. 2000 hours of use	
After 8 minutes of non-use	
120 x 53 x 81 mm (4.7 x 2.1 x 3.2")	
205 g (7.2 oz)	

DiST® 7 and DiST® 8 are portable EC/TDS and temperature

- 2. SET/HOLD button

OPERATIONAL GUIDE

To turn the meter on and check the battery status Press and hold the MODE button for 2-3 seconds. All the used seaments of the LCD will be visible for a few seconds, followed by a percent indication of the remaining battery life (eq. % 100 BATT).

Taking measurements

Rinse and fill the cell cup with the solution to be tested Select either EC or TDS mode with the SET/HOLD button.



1990

25.0°°

The measurements should be taken when the stability indicator on the top left of the LCD disappears.

The EC (or TDS) value automatically compensated for temperature variations, is shown on the LCD together with the temperature of the sample.

To change the temperature unit

To change the temperature unit (from °C to °F), from measurement mode press and hold the MODE button until TEMP and the current temperature unit are displayed on the lower LCD (eq. TEMP °C).

Use the SET/HOLD button to change the temperature unit, and then press the MODE button twice to return to normal measurement mode.

To freeze the display

Press and hold the SET/HOLD button until "HOLD" appears on the secondary display.

Press either button to return to normal mode

To turn the meter off

Press the MODE button while in normal measurement mode. OFF will appear on the lower part of the display. Release the button

Notes

- Before taking any measurement make sure the meter has been calibrated.
- If measurements are taken in different samples successively, rinse the cell cup thoroughly with water, and then with some of the sample to be measured.

CALIBRATION

For better accuracy, frequent calibration of the instrument is recommended. In addition, the instrument must be recalihrated whenever.

- a) After testing aggressive chemicals.
- b) Where high accuracy is required
- c) At least once a month.

To change the TDS factor (CONV) and the temperature compensation coefficient β (BETA)

- From measurement mode, press & hold the MODE button until TEMP and the current temperature unit are displayed on the lower LCD (eq. TEMP °C).
- Press the MODE button again to show the current conversion factor (eq. 0.50 CONV).
- Use the SET/HOLD button to change the value.
- Press the MODE button to show the current temperature compensation coefficient β (eq. 2.1 BETA).
 - Use the SET/HOLD button to change the value.
 - Press the MODE button to return to normal mode.

Calibration procedure

- From measurement mode, press & hold the MODE button until CAL is displayed on the lower LCD.
- Release the button and fill the cell cup with the proper calibration solution: for example, use **HI 7031** (1413 μ S) for DiST 7 and HI 7030 (12.88 mS/cm) for DiST 8.
- Once the calibration has been automatically performed, the LCD will display "OK" for 1 second, then the meter will return to normal measurement mode.
- Since there is a known relationship between EC and TDS readings, it is not necessary to calibrate the meter in TDS. If the TDS factor is either 0.5 or 0.7, the meter will allow a direct calibration in ppm by using the Hanna calibration solutions listed in the specifications table.
- The CAL tag on the LCD means that the meter is calibrated.

To reset to the default calibration

To clear a previous calibration, press the MODE button after entering the calibration mode. The lower LCD will display "ESC" for 1 second, then the meter will return to normal measurement mode.

The CAL symbol on the LCD will disappear and the meter will be reset to the default calibration.

BATTERY REPLACEMENT

The meter displays the remaining battery percentage every time it is switched on. When the battery level is below 5%, the battery symbol on the bottom left of the LCD lights up to indicate a low battery condition. The batteries must be immediately replaced Moreover, if the battery level is too low to ensure reliable reading, the Battery Error Prevention System (BEPS) will automatically turn the meter off

To change the batteries, remove the 4 screws located on the hottom of the meter

Remove the screw and the washer in the battery compartment and carefully replace the 4 batteries located in the compartment, while paying attention to their polarity.



Replace the washer and tighten the screw in the compartment: replace the bottom, ensuring that the gasket is in place before tightening the screws.

Batteries should only be replaced in a non-hazardous area usina the battery type specified in this instruction manual.



HI 70030P	12.88 mS/cm solution, 20 mL sachet, 25 pcs
HI 70031P	1413 μ S/cm solution, 20 mL sachet, 25 pcs
HI 70032P	1382 ppm solution, 20 mL sachet, 25 pcs
HI 70038P	6.44 ppt solution, 20 mL sachet, 25 pcs
HI 70442P	1500 ppm solution, 20 mL sachet, 25 pcs
HI 7030M	12.88 mS/cm solution, 230 mL bottle
HI 7031M	1413 μ S/cm solution, 230 mL bottle
HI 7032M	1382 ppm solution, 230 mL bottle
HI 7038M	6.44 ppt solution, 230 mL bottle
HI 70442M	1500 ppm solution, 230 mL bottle

Recommendations for Users

Before using this product, make sure that it is entirely suitable for the environment in which it is used. Operation of this instrument in residential areas could cause unacceptable interferences to radio and TV equipment. Any variation introduced by the user to the supplied equipment may degrade the instrument's EMC performance. To avoid electrical shock, do not use this instrument when voltages at the measurement surface

exceed 24 Vac or 60 Vdc. To avoid damages or burns, do not perform any measurement in microwave ovens.

CE DECLARATION OF CONFORMITY

