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HI 2314

Benchtop Conductivity Meter with MTC

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The Hanna Instruments HI 2314 Conductivity Meter with Manual Temperature Compensation (MTC) provides a simple to use, cost effective method of measuring Conductivity.

The HI 2314 utilizes a four ring potentiometric probe with a platinum sensor that offers wider measurement ranges and increased accuracy over amperometric designs.

A potentiometric probe works on the principal of induction which eliminates the effects of polarization (a common problem of amperometric systems). Two outer rings apply an alternating voltage and induce a current loop in the solution while two inner rings measure the voltage drop induced by the current loop (which is dependent on the conductivity of the solution). By utilizing the 4-ring method, it is possible to measure from very low to very high conductivity levels (up to 200 mS/cm) without changing probes.

FEATURES/BENEFITS:

* Four ring potentiometric platinum probe
* Four measurement ranges
* ±1% F.S. Accuracy
* Manual Calibration
* Manual Temperature Compensation (MTC)
* Large LCD
* Built-in Solution Holders

FEATURES IN DEPTH:

Four Ring Probe - A four ring potentiometric probe using 1 probe for 4 ranges. (The ranges are: 0.0 to 199.9 ?s/cm; 0 to 1999 ?s/cm; 0.00 to 19.99 ms/cm; 0.0 to 199.9 ms/cm). The probe prevents a polarization effect.

Manual Calibration - This simple to use feature can be calibrated to any value within the measurement ranges and is less expensive than models with auto-calibration.

Manual Temperature Compensation (MTC) – MTC provides the ability to demonstrate the effect of temperature on EC measurement. It is simple to use and allows for different temperature corrections based on the sample being tested.

Large LCD – The new, larger LCD is bright and easy to read.

Built-in Solution Holders – The HI 2315 has solution holders built into the casing. This convenient feature saves space and prevents solutions from tipping over.

Recessed Connector Bay – Protects connectors from liquids.

PRIMARY APPLICATIONS:

* Municipal drinking water, environmental studies
* Printing industry - Fountain solution maintenance
* Water Treatment – Boiler/Cooling Tower water quality
* Agriculture – Fertilizer concentration
* Food processing – salt levels in food. (i.e. making pickles)
* Education – Teach students about EC

Electrodes
HI 76300 Platinum 4-Ring Potentiometric Conductivity Probe, DIN connector and 1 m (3.3') cable
Solutions
HI 5030-12 12880 ?S/cm EC Solution (120ml)
HI 5031-12 1413 ?S/cm EC Solution (120ml)
HI 5033-12 84 ?S/cm EC Solution (120ml)
HI 5034-12 80000 ?S/cm EC Solution (120ml)
HI 7035L 111800 ?S/cm EC Solution (500ml)
HI 7039L 5000 ?S/cm EC Solution (500ml)
HI 7061L Cleaning Solution (500ml)

Accessories
HI 76404 Electrode Holder
HI 710005 Power Adapter, 115 Vac to 12 VDC, US Plug
HI 710006 Power Adapter, 230 Vac to 12 VDC, European Plug
HI 740036P 100 mL Plastic Beaker

Order Information:
HI 2314-01 (115V) and HI 2314-02 (230V) are supplied with HI 76300 conductivity probe, 12 VDC adapter and instruction manual.

Specifications

Range	0.0 to 199.9 µs/cm; 0 to 1999 µs/cm; 0.00 to 19.99 ms/cm; 0.0 to 199.9 ms/cm
Resolution	0.1 µs/cm; 1 µs/cm; 0.01 ms/cm; 0.1 ms/cm
EC Accuracy (@20° C/68°F)	±1% F.S. (excluding probe error)
Calibration	Manual, one point
Temperature Compensation	Manual, 0 to 50°C (32 to 122°F) with b = 2%/°C
Probe	HI 76300, platinum four ring conductivity probe with internal temperature sensor, Din connector and 1 m (3.3') cable (included)
Power Supply	12 VDC adapter (included)
Environment	0 to 50°C (32 to 122°F); RH max 95% non-condensing