HI2630 • HI2631

# Conductivity Benchtop Meters

*Single Parameter*


## Conductivity Innovation Simplified

The HI2630 and HI2631 single-parameter EC benchtop meters represent the culmination of Hanna's visionary approach, advanced design expertise, integrated manufacturing processes, and world class research and development.

HI2630 measures EC and TDS utilizing Hanna's unique digital electrodes while the HI2631 adds datalogging capabilities and salinity measurement and calibration.

# HI2630 and HI2631 features


## Clear, Full Text Readout

The HI2630 and HI2631 presents clear, detailed text prompts at the bottom section of the screen.


## Capacitive Touch Keypad

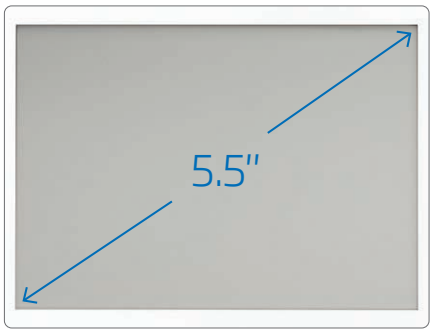
Both the HI2630 and HI2631 feature sensitive capacitive touch buttons for accurate keystrokes for navigating menus and screens. Since they are part of the screen, the buttons can never get clogged with sample residue.


## Data Logging (HI2631 only)

HI2631 provides data storage capacity, up to 1000 log records. Each data set comprehensively includes readings, GLP information, as well as date and time stamps.

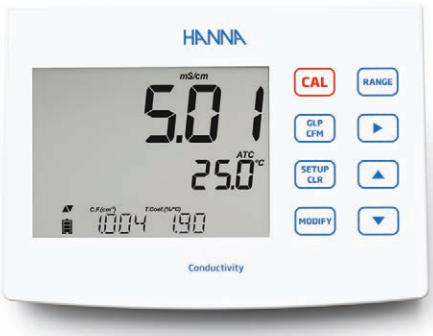

## GLP

The sensor retains data from the most recent calibration, including the date, time, and standards utilized. This information is available in basic and standard modes. For HI2631, this information is also included with logged data.




## Easy to Read LCD

These meters feature a 5.5" (14 cm) LCD display that you can clearly view from over 5 m (16.4'). The large display, with its wide 150° viewing angle, provides one of the easiest to read LCDs in the industry.




## Small Footprint

With dimensions of just 205 x 160 x 77 mm (8.0 x 6.2 x 3.0") and a weight of only 850 g (1.87 lbs.), these meters offer exceptional portability and seamlessly integrates into the most crowded laboratory workspaces.

## Two Operating Modes (HI2631 only)

HI2631 can be used in Standard or Basic Operating Modes. Standard Mode enables all features while Basic Mode reduces features–ideal for routine measurements by displaying a simplified screen and features. HI2630 operates in Basic Mode only.


## Digital Electrodes

The meters measure EC, TDS and Salinity through its unique digital electrode. This digital electrode is auto-recognized, providing sensor type, calibration data, and a serial number when connected by an easy to plug-in 3.5 mm connector.

- Probes process signal directly for noise free measurements
- Auto sensor recognition
- Store calibration specific data from the last calibration
- Are built with materials suitable for use in chemical analysis
- Have integrated temperature measurement
- Incorporate a 3 mm jack termination
- Unique serial ID in every probe for traceability

Compatible with:

- HI763100: Digital 4 ring conductivity probe with integrated temperature sensor (included)

## HI2630/HI2631 Rear View (HI2631 rear view shown)


### USB-C Port for Data Transfer (HI2631 only)

The HI2631 features a streamlined USB-C port that facilitates transferring data to your computer.

### Digital Probe Input

Simply connect each probe via the 3.5 mm jack, Digital Smart Electrodes are automatically recognized.

# Features at a Glance

- Digital four-ring conductivity probe
  - Covers all ranges from 0.00 µS/cm to 500 mS/cm (absolute EC)
- EC, TDS and reading modes
- Salinity reading mode (HI2631 only)
- Accuracy
  - ± 1% of the reading (±0.05 µS/cm or 1 digit, whichever is greater)
- Basic mode for simplified operation
- Calibration
  - Offset (0 µS/cm) and cell factor calibration
  - Choice of 5 standards (auto-recognition)
- Data logging (HI2631 only)
  - Manual log-on-demand
  - Manual log-on-stability
  - Interval logging
- GLP data
  - Records date, time, offset and cell factor
  - Data of the last performed calibration is stored in the probe: date, time, cell constant, temperature coefficient, reference temperature and battery status. When the probe is connected to edge®EC,
  - GLP data is automatically transferred
- Auto-ranging or manual range selection
- Temperature readout (°C or °F)
- Temperature compensation
  - Automatic
  - NoTC (absolute)
- Adjustable EC to TDS conversion factor
- Adjustable temperature correction coefficient
- Seawater salinity units (HI2631 only)
  - % NaCl
  - PSU
  - g/L

| Specifications | | HI2630 | HI2631 |
|---|---|---|---|
| EC | Range | 0.00 to 29.99 µS/cm; 30.0 to 299.9 µS/cm; 300 to 2999 µS/cm; 3.00 to 29.99 mS/cm; 30.0 to 200.0 mS/cm; up to 500.0 mS/cm absolute EC** | |
| | Resolution | 0.01 µS/cm; 0.1 µS/cm; 1 µS/cm; 0.01 mS/cm; 0.1 mS/cm | |
| | Accuracy (@25°C/77°F) | ±1% of reading (±0.05 µS/cm or 1 digit, whichever is greater) | |
| | Calibration | single cell factor calibration; six standards available: 84 µS/cm, 1413 µS/cm, 5.00 mS/cm, 12.88 mS/cm, 80.0 mS/cm, 111.8 mS/cm, one point offset: 0.00 µS/cm | |
| | Temperature Coefficient | 0.00 to 6.00%/°C (for EC and TDS only), default value is 1.90%/°C | |
| TDS | Range | 0.00 to 14.99 mg/L (ppm); 15.0 to 149.9 mg/L (ppm); 150 to 1499 mg/L (ppm); 1.50 to 14.99 g/L; 15.0 to 100.0 g/L; up to 400.0 g/L absolute TDS using 0.80 conversion factor** | |
| | Resolution | 0.01 mg/L (ppm); 0.1 mg/L (ppm); 1 (ppm); 0.01 g/L; 0.1 g/L | |
| | Accuracy (@25°C/77°F) | ±1% of reading (±0.03 ppm or 1 digit, whichever is greater) | |
| | Calibration | through EC calibration | |
| | TDS Factor | 0.40 to 0.80 (default value is 0.50) | |
| Salinity† | Range | – | 0.0 to 400.0 % NaCl; 2.00 to 42.00 PSU; 0.00 to 80.00 g/L |
| | Resolution | – | 0.1 % NaCl; 0.01 PSU; 0.01 g/L |
| | Accuracy (@25°C/77°F) | – | ±1% of reading |
| | Calibration | – | PSU and g/L through EC calibration; % NaCl – one-point with HI7037 sea water standard |
| Temperature | Range* | -20.0 to 120.0°C; -4.0 to 248.0°F | |
| | Resolution | 0.1°C; 0.1°F | |
| | Accuracy | ±0.5°C; ±0.9°F | |
| Additional Specifications | Probe | HI763100 digital four-ring conductivity probe with 3.5 mm (1/8") connector and 1 m (3.3') cable | |
| | Logging | – | up to 1000† (400 for basic mode) records organized in: manual log-on-demand (max. 200 logs), manual log-on-stability (max. 200 logs), interval logging† (max. 600 samples; 100 lots) |
| | Connectivity | – | 1 USB-C port for PC connectivity |
| | Environment | 0 to 50°C (32 to 122°F); RH max 95% non-condensing | |
| | Power Supply | USB Type C (5 VDC; 500 mA) | USB Type C (5 VDC; 500 mA) |
| | Dimensions | 205 x 160 x 77 mm (8.0 x 6.2 x 3.0 ") | |
| | Weight | Approximately 850 g (1.87 lbs.) | |
| Ordering Information | | **HI2630** Conductivity Benchtop Meter includes HI763100 conductivity probe, 1.5 m USB-C to C USB-C cable, quality certificates, and QR code for manual download.<br>**HI2631** Conductivity + Logging Benchtop Meter includes HI763100 conductivity probe, 1413 µS/cm conductivity standard sachets (4), 12880 µS/cm conductivity standard sachets (2), 5000 µS/cm conductivity standard sachets (2), electrode rinse solution sachets (2), electrode Holder, 1.5 m USB-C to C USB-C cable, quality certificates, and QR code for manual download. | |

* temperature limits will be reduced to actual probe limits
** with temperature compensation function disabled
† standard mode only

EC, TDS and Salinity solutions begin on page 5.38