HI6000 Series

# Multiparameter Modular System

pH/ORP | pH/ORP/ISE | EC | DO


HANNA® instruments

# Multiparameter Modular System

## pH/ORP, pH/ORP/ISE, EC & DO

The new HI6000 Series modular multiparameter touchscreen laboratory system is designed for research and laboratory professionals who demand impeccable measurement quality.

HI6000 is a fully flexible laboratory measurement platform that can be customized according to the user's measurement and application needs. Designed and developed using the latest generation technologies it gives users complete control over their measurements and total confidence in their results. Multi-point calibration (up to 5 points) guarantees the highest possible accuracy.

Modular by nature, HI6000 allows simultaneous installation of three of the four modules offered by Hanna Instruments: pH/ORP, pH/ORP/ISE, Dissolved Oxygen and Conductivity. Combined with the appropriate sensors, the device provides fast, reliable measurements displayed on the large touchscreen.

A context-sensitive help menu and tutorial videos support the user through all operations, for a very user-friendly experience.

Users can configure the instrument to suit their own needs. The instrument features numerous functions to simplify and optimize work routines, such as a wide choice of display modes, installation of application profiles for immediate access to recurring methods, and versatile connectivity for data storage and sharing.

- Four modules available: pH/ORP, pH/ORP/ISE, DO, & EC
- Totally flexible and customizable
- Easily install and swap modules
- Space saving design
- Wide range of electrodes available
- Highly accurate and reliable measurement
- View up to three channels simultaneously
- Share data to USB flash or PC, or via Ethernet or Wi-Fi to FTP, web server and email
- Connect keyboard, printer or two stirrers
- User friendly design
- Large capacitive multi-touch screen
- Quick assistance with video tutorials

## Accurate & Reliable

# Go Modular

Easily install and swap modules.

Any combination of 1 to 3 modules can be used.

- Multiparameter measurement flexibility
- Plug-and-play design
- Effortless installation


## Flexibility & Expandability


## Module options

Up to three measurement modules can be easily installed into the HI6000 housing.
You can choose any combination of the available modules.

| Module | **HI6000-1** | **HI6000-2** | **HI6000-3** | **HI6000-4** |
|---|---|---|---|---|
| Sensor | pH/ORP | pH/ORP/ISE | EC | DO |
| Details | ORP: separate sensor required | Incremental ISE methods also available | Supports high purity water in pharmaceutical industry: meter verification, cell validation and three stages of USP<645> | Supports batch analysis of multiple samples: OUR, SOUR), BOD |
| Recommended probes | **HI1131B**<br>Refillable pH electrode<br>**HI7662-TW**<br>Stainless steel temperature probe | **HI1131B**<br>Refillable pH electrode<br>**HI7662-TW**<br>Stainless steel temperature probe<br>Hanna Instruments ion selective electrodes | **HI7631233**<br>EC/resistivity probe | **HI7641133**<br>Optical DO probe<br>**HI764833**<br>Polarographic DO probe |

# pH/ORP and pH/ORP/ISE modules

## HI6000-1 · HI6000-2


**HI6000-1** (pH/ORP) module

**HI6000-2** (pH/ORP/ISE) module

The HI6000-1 module measures pH, ORP and temperature.

The HI6000-2 module measures pH, ORP, specific ions and temperature.

## Measurement

- Choice of Measurement Unit
  - pH (**HI6000-1**, **HI6000-2**) – pH, mV
  - ORP (**HI6000-1**, **HI6000-2**) – mV, Rel.mV
  - ISE (**HI6000-2** only) – ppt, ppm, ppb, g/L, mg/L, µg/L, mg/mL, µg/mL, M, mol/L, mmol/L, %w/v, user defined
- Reading modes:
  - Direct and direct/autohold
  - Known Addition, Known Subtraction, Analyte Addiiton, Analyte Subtration (**HI6000-2**)

## Calibration

- pH calibration using
  - **Up to five** Hanna Instruments pH buffers (pH 1.68, 3.00, 4.01, 6.86, 7.01, 9.18, 10.01 and 12.45)
  - Up to five custom buffers
- mV calibration using a single point to calibrate offset.
- ISE calibration using **up to five** nominal standard values and/or up to five custom solutions (user supplied)


## Recommended probes

For pH measurements, Hanna recommends the HI1131B double junction combination pH electrode, together with HI7662-TW temperature probe for use with these modules.

HI1131B is a glass body, double junction, refillable pH electrode with an indicating sensor made of high temperature (HT) glass. The double junction reference and HT glass design allow the electrode to be used in a wide variety of applications.

Probe connection to the unit is secured through a galvanically isolated BNC connection.

HI7662-TW stainless steel temperature probe allows the meter to automatically temperature compensate (ATC) pH measurements.

| Specifications | | HI6000 with HI6000-1 pH/ORP Module | HI6000 with HI6000-2 pH/ORP/ISE Module |
|---|---|---|---|
| pH | Range* | -2,0 to 20,0 pH; -2,00 to 20,00 pH; -2,000 to 20,000 pH | |
| | Resolution | 0,1 pH; 0,01 pH; 0,001 pH | |
| | Accuracy | ±0,1 pH; ±0,01 pH; ±0,002 pH (±1 last significant digit) | |
| | Temperature compensation | Automatic or manual | |
| | Calibration points | Up to 5 | |
| | Type | Automatic; Semiautomatic; Manual | |
| | Standard buffers | Hanna and NIST pH 1,68, 3,00, 4,01, 6,86, 7,01, 9,18, 10,01, 12,45 | |
| | Custom buffers | Up to 5 | |
| | Custom group | Up to 5 | |
| | 1st calibration point | Offset or point (user setting) | |
| | Isopotential point | -2,000 to 20,000 pH | |
| mV | Range | -2000,0 mV to 2000,0 mV | |
| | Resolution | 1 mV; 0,1 mV | |
| | Accuracy | ±0,2 mV ±1 last significant digit | |
| | Calibration | Single point offset, ±2000,0 mV | |
| ISE (HI6000-2 module only) | Range | – | $1,0\times10^{-5}$ to 300,0 ppt (g/L or mg/mL)<br>$5,0\times10^{-3}$ to $1,0\times10^{5}$ ppm (mg/L or µg/mL)<br>1,0 to $5,0\times10^{7}$ ppb (µg/L)<br>$1,0\times10^{-7}$ to 10,0 M (mol/L)<br>$1,0\times10^{-4}$ to $1,0\times10^{4}$ mmol/L<br>$1,0\times10^{-6}$ to 60,0 % w/v<br>$5,0\times10^{-7}$ to $5,0\times10^{7}$ user |
| | Resolution | – | 1, 2, 3 significant digits |
| | Accuracy | – | ±0,5% (monovalent ions)<br>±1% (divalent ions) |
| | Calibration points | – | Up to 5 |
| | Calibration type | – | All standards<br>Standard group |
| | Standards | – | 7 standard solutions available for each concentration unit |
| | Custom standards | – | Up to 5 |
| | Custom group | – | Up to 5 |
| Temperature | Range* | -20,0 to 120,0 °C; -4,0 to 248,0 °F; 253,2 to 393,2 K | |
| | Resolution | 0,1 °C; 0,1 °F ; 0,1 K | |
| | Accuracy | ±0,2 °C; ±0,4 °F; ±0,2 K | |
| | Calibration | Single point, adjustable | |

* The range may be limited by the probe's limits.

# Did you know?

Hanna Instruments also offers a wide range of high quality pH electrodes for many applications.

Contact us to find the right electrode for your needs.

# Conductivity module

## HI6000-3


The HI6000-3 module measures conductivity over an extended range from 0.001 µS/cm to 1 S/cm, TDS, resistivity, salinity and temperature.

The HI6000-3 module also supports the measurement of high purity water used in the pharmaceutical industry. The application includes meter verification, cell validation applications and the HI6000-3 module is programmed for the three stages of the USP <645> bulk water analysis. The meter guides you through the measurement steps and notifies you when a measurement is out of specification. Reports can be generated and saved.

## Measurement

- Choice of Measurement Unit
  - Conductivity – µS/cm, mS/cm
  - Resistivity – Ω·cm, kΩ·cm, MΩ·cm
  - TDS – ppm, ppt
  - Salinity – ppt, PSU, %

## Calibration

- Conductivity Calibration **up to five points**, using:
  - Offset: 0 µS/cm (in air)
  - Slope: 84 µS/cm, 1413 µS/cm, 5000 µS/cm, 12880 µS/cm, 80000 µS/cm, and 111800 µS/cm, or custom standards
- Salinity (%) calibration using 100% salinity standard

| Specifications | | HI6000 with HI6000-3 EC Module | |
|---|---|---|---|
| Conductivity | Range* | 0,000 to 9,999 µS/cm<br>10,00 to 99,99 µS/cm<br>100,0 to 999,9 µS/cm | 1,000 to 9,999 mS/cm<br>10,00 to 99,99 mS/cm<br>100,0 to 1000,0 mS/cm |
| | Resolution | 0,001 µS/cm<br>0,01 µS/cm<br>0,1 µS/cm | 0,001 mS/cm<br>0,01 mS/cm<br>0,1 mS/cm |
| | Accuracy | ±1 % of reading or ±0,010 µS/cm, whichever is greater | |
| | Cell Constant | 0,0500 to 200,0000 /cm | |
| | Calibration Type | Automatic or manual | |
| | Calibration Points | Single; Up to 5 | |
| | Calibration Solutions | 84,00 µS/cm; 1,413 mS/cm; 5,000 mS/cm; 12,88 mS/cm; 80,00 mS/cm; 111,8 mS/cm | |
| | Temperature Compensation | Linear; Natural; Standard; Disabled | |
| | Reference Temperature | 5,0 to 30,0 °C (41,0 to 86,0 °F, 278,2 to 303,2 K) | |
| | Temperature Coefficient | 0,00 to 10,00 %/°C | |
| Resistivity | Range | 1,0 to 99,9 Ω·cm; 100 to 999 Ω·cm; 1,00 to 9,99 KΩ·cm; 10,0 to 99,9 KΩ·cm; 100 to 999 KΩ·cm; 1,00 to 9,99 MΩ·cm; 10,0 to 100,0 MΩ·cm | |
| | Resolution | 0,1 Ω·cm; 1 Ω·cm; 0,01 KΩ·cm; 0,1 KΩ·cm; 1 KΩ·cm; 0,01 MΩ·cm; 0,1 MΩ·cm | |
| | Accuracy | ±1 % of reading or ±1 Ω·cm, whichever is greater | |
| Total Dissolved Solids (TDS) | Range | 0,000 to 9,999 ppm<br>10,00 to 99,99 ppm<br>100,0 to 999,9 ppm | 1,000 to 9,999 ppt<br>10,00 to 99,99 ppt<br>100,0 to 400,0 ppt<br>actual TDS (with 1.00 factor) |
| | Resolution | 0,001 ppm<br>0,01 ppm<br>0,1 ppm | 0,001 ppt<br>0,01 ppt<br>0,1 ppt |
| | Accuracy | ±1 % of reading or ±0,01 ppm, whichever is greater | |
| Salinity | Range | 0.00 to 42.00 PSU (Practical Salinity Scale)<br>0.00 to 80.00 ppt (Natural Sea Water)<br>0.0 to 400.0 % (Percent Scale) | |
| | Resolution | 0.01 PSU<br>0.01 ppt<br>0.1 % | |
| | Accuracy | ±1 % of reading | |
| | Calibration | 1 point, using 100 % salinity calibration solution (% scale only) | |
| Temperature | Range* | -20,0 to 120,0 °C / -4,0 to 248,0 °F / 253,2 to 393,2 K | |
| | Resolution | 0,1 °C; 0,1 °F; 0,1 K | |
| | Accuracy | ±0,2 °C; ±0,4 °F; ±0,2 K | |
| | Calilbration | Single point, adjustable | |

* The range may be limited by the probe's limits.

# Required probe

Hanna recommends the HI7631233 platinum four-ring probe for use with this module.

Recommended for a wide range of industrial process water applications, HI7631233 provides stable measurements over a wide measurement range and does not require frequent calibrations. A built-in temperature sensor measures the process temperature and adjusts the measured conductivity to a reference temperature by applying specialized compensation algorithms:

- Linear: appropriate when it is assumed that the temperature coefficient of variation has the same value for all measurement temperatures.
- Standard: appropriate for high-purity water measurements and documented in ASTM Standard D5391-14. This setting should be used for >1Mohm.cm resistivity measurements.
- Natural: appropriate for natural ground, well, or surface water (or water with similar composition) in accordance with ISO7888 standard.

The result is reliable electrolytic conductivity.

# Dissolved Oxygen module

## HI6000-4


HI6000-4 Dissolved Oxygen module is designed to be used with the HI6000 Multiparameter Modular System for fresh and saltwater measurements of dissolved oxygen when used with the HI7641133 optical dissolved oxygen (opdo®) probe or the HI764833 polarographic dissolved oxygen probe.

The Oxygen Uptake Rate (OUR), Specific Oxygen Uptake Rate (SOUR), Oxygen Demand (BOD) methods guide the user through the procedures adhering to the standard method guidelines.

Concentration measurements are automatically compensated for barometric pressure, temperature, and salinity.

- OUR measurements determine the biological activity of a system in terms of oxygen consumption or respiration rate.
- SOUR measurements determine the oxygen consumption of a system.
- BOD measurements determine the oxygen uptake rate by microorganisms in a water sample over a period time.

## Measurement

- Choice of Measurement Unit
  - DO – %Sat, mg/L, ppm
  - BOD – ppm, mg/L
  - OUR – ppm, mg/L
  - SOUR – ppm, mg/L
  - Pressure – mmHg, mbar, kPa, inHg, psi, atm
- Reading modes: direct and direct/autohold; BOD, OUR, SOUR

## Calibration

- **One or two points** automatic calibration at 100.0 % (8.26 mg/L) and 0.0 % (0.00 mg/L)
- One point manual calibration using a valued entered by the user

| Specifications | | HI6000 with HI6000-4 DO Module | |
|---|---|---|---|
| DO | Range* | 0,0 to 500,0 % saturation<br>0,00 to 90,00 mg/L (ppm) concentration | |
| | Resolution | 0,1 % saturation<br>0,01 mg/L (ppm) | |
| | Accuracy | Refer to probe used | |
| | Calibration points | One or two points at 100,0 % (8.26 mg/L) and 0.0 % (0.00 mg/L) | |
| | Calibration type | Automatic<br>Manual (user entered value in % saturation, mg/L, or ppm) | |
| Barometric pressure | Range | 450,0 to 850,0 mmHg<br>600,0 to 1133,2 mbar<br>60,00 to 113,32 kPa | 17,72 to 33,46 inHg<br>8,702 to 16,436 psi<br>0,5921 to 1,1184 atm |
| | Resolution | 0,1 mmHg<br>0,1 mBar<br>0,01 kPa | 0,01 inHg<br>0,001 psi<br>0,0001 atm |
| | Accuracy | ±3 mmHg within ±15 % from calibration point<br>±3 mmHg ±1 least significant digit | |
| | Compensation | Automatic (meter-integrated barometer)<br>Manual | |
| Temperature | Range* | -20,0 to 120,0 °C<br>-4,0 to 248,0 °F<br>253,2 to 393,2 K | |
| | Resolution | 0,1 °C<br>0,1 °F<br>0,1 K | |
| | Accuracy | Refer to probe used | |
| | Compensation | Automatic<br>Manual | |
| | Calibration | Single point, adjustable | |
| Salinity compensation | | Manual<br>0,00 to 45,00 PSU or g/L (ppt)<br>0,0 to 130,0 % | |

* The range may be limited by the probe's limits.

# Recommended probes

Hanna recommends a choice of 2 dissolved oxygen probes for use with this module: HI7641133 optical dissolved oxygen probe (opdo®) and HI764833 polarographic probe.

HI7641133 opdo probe (with HI764113-1 Smart Cap) provides accurate dissolved oxygen measurements over long periods of time reducing the need for frequent calibration. The Cap, pre-loaded with calibration coefficients, includes the immobilized $O_2$ sensitive luminophore with a rugged, insoluble black oxygen permeable protective layer.

The principle of operation is based on the principle of fluorescence quenching and features an immobilized Pt-based luminophore that is excited by the light of a blue LED and emits a red light. Dissolved oxygen quenches this excitation. When there is no oxygen present, the lifetime of the signal is the greatest; as oxygen hits the sensing surface, the lifetime becomes shorter.

The intensity and lifetime are inversely proportional to the amount of oxygen present; as oxygen interacts with the luminophore it reduces the intensity and lifetime of the luminescence. The lifetime of the luminescence is measured by a photodetector, and is used to calculate the dissolved oxygen concentration. This is, in turn, reported by the meter as % saturation or mg/L of dissolved oxygen.

HI764833 Clark-Type polarographic probe features a platinum cathode and Ag/AgCl anode assembly and a built-in temperature sensor. The temperature measurement is used in computations for dissolved oxygen measurements.

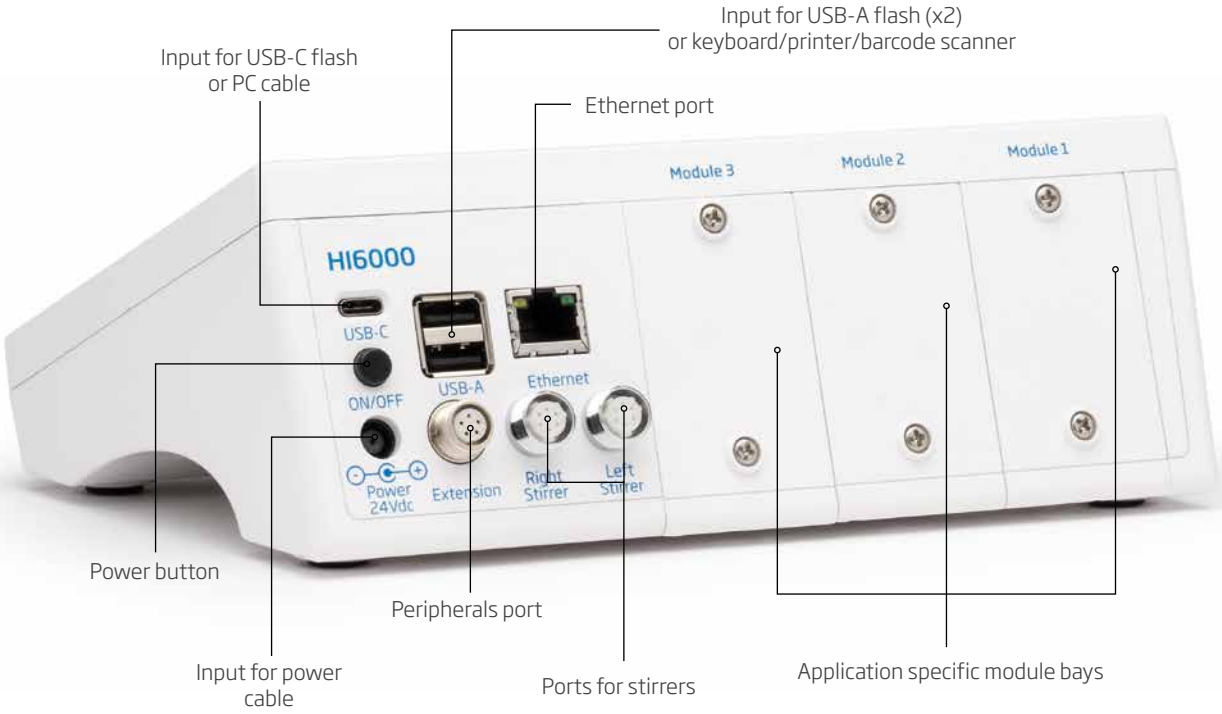
The probe has a thin, 12 mm (0.47"), design that allows for convenient measurement in narrow vessels such as test tubes, wine bottles, standard BOD bottles.

The probe is fitted with a PTFE screw cap membrane that separates the probe's cathode and anode from the sample being measured. Oxygen diffuses across the membrane and interacts with the polarographic system to produce a current proportional to oxygen concentration. The cap is filled with HI7041 electrolyte and screwed on to the probe. Screw-on caps with pretensioned membranes provide quick maintenance.


**HI7641133**
Optical DO Probe


**HI764833**
Polarographic DO Probe

# Go digital




## Thanks to Wi-Fi connection, forget about manual data transcripts

### Connectivity features and services

- Transfer logged data to a USB flash drive
- Log files include **measurements** and **calibration data** (as .CSV file)
- FTP and email for log export via **Ethernet and Wi-Fi connection**
- Download logs using the meter's embedded web server
- USB type A for USB drive, **printer** (standard or thermal), and **keyboard**
- USB type C for USB drive and **PC connection**

### Logging

- **Active log** during measurement
- Data log collection of at most **1,000,000 data points**, with time and date stamp
- Logging types: manual, automatic, autohold
- Sample ID for manual and autohold data

# Seamless simplicity

## Multiple screen configurations

Up to 3 measurements can be shown on screen simultaneously. Views can be mixed and matched.


Single-parameter screen


Dual-parameter screen


Triple-parameter screen

## Great user experience

### User-friendly interface

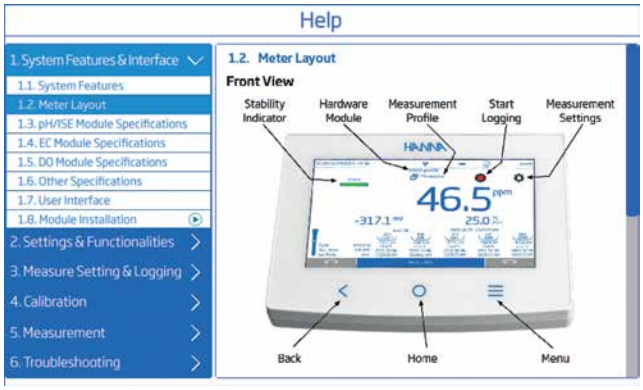
- 7" (17.8 cm) capacitive touchscreen with multi-touch support
- Capacitive touch keys for back, home and menu system buttons
- User-friendly icons and symbols enable easy navigation and interpretation of instrument functions
- Choice of five different display modes:
  - Standard
  - Simple GLP with calibration information
  - Full GLP with electrode status and calibration point details
  - Interactive graph updated in real time
  - Tabulated data with date, time and notes

### 10 User-Profiles

- For direct access to daily analyses, users can save their procedures in profiles grouping together all their method configuration data.

### On-board help and video tutorial

- The HELP menu supports users with a brief overview of the system's main functionalities through text and video tutorials.



# Stay secure


## Accuracy

Multi-point calibration for optimum results

- pH calibration up to 5 points with 8 stored standard buffers and 5 custom buffers
- ISE calibration up to 5 points with 5 stored standards and 5 custom buffers
- Conductivity calibration up to 5 points with 6 stored standards and 1 user standard

HI6000 automatically recognizes the closest buffer to the pH value being measured from all available (standard and custom) buffers in the buffer group.

## Certification

The calibration certificate specifies the corrections to be applied to your measurement results, making them more accurate.

For organizations involved in quality management systems, standardization guidelines strongly recommend regular calibration and maintenance of measurement systems, validated by a calibration certificate which can be checked during an audit.

"Measuring equipment needs to be checked periodically. With Hanna Instruments calibration services, you can ensure the reliability and quality of your measuring equipment. You optimize their smooth operation and reduce your costs."

## Support

Our technical team is here to help you

- Phone support
- Quick assistance
- Advice on choosing the right electrodes for your application
- Calibration services
- Repairs on our premises

# Save space on your workbench

## Probe holder

HI764060

- Probe holder with flexible arm supplied for up to 3 probes + 1 temperature sensor
- Can be securely fixed to either side of the instrument.

## Magnetic mini-stirrer

HI6000180


Stirring speed and direction are adjustable via the HI6000's interface or the front speed knob.

- ✚ Easy to handle, this lightweight and compact stirrer needs little room and is quickly recognizable on busy benches
- ✚ Chemical resistant housing
- ✚ Adjustment of stirring speed using the cursors on the HI6000 display
- ✚ Select the desired rotation: clockwise, counter clockwise, or alternating (15, 30, or 45 seconds)

| Specifications | HI6000180 |
|---|---|
| Stirring Capacity | 1 liter |
| Speed Range | 100 to 1500 rpm |
| Power Supply | Powered by the meter |
| Cover Material | ABS plastic |
| Environment | 0 to 50 °C; RH max 95% |
| Dimensions / Weight | Ø 137 mm x 61 mm / 640 g |

## Thermal printer

SP6000-PRN02

- ✚ Compact housing ideal for tight spaces
- ✚ Fast, stable network tethering
- ✚ Versatile connectivity: USB-A, USB-B, USB-C and Ethernet


| Specifications | SP6000-PRN02 |
|---|---|
| Print Method | Thermal |
| Print Speed | Up to 300 mm/s |
| Print Resolution | 203 dpi |
| Print Direction | Vertical and horizontal |
| Dimensions / Weight | 127mm x 128mm x 129mm / 1.3 kg |

# Customize your benchtop meter

## Create your ideal meter in 3 steps

## 1. Set the HI6000 meter


**HI6000-02** is supplied with **HI764060** electrode holder (with the following accessories: base plate (with integrated pivot pin) and screw, requires installation; cable holder clip, attached; electrode holder with adapter, attached), 24 VDC power adapter; USB-C to USB-A cable; instrument quality certificate; quick reference with QR code for manual download.

Each **HI6000** unit can house 3 modules

## 2. Choose up to 3 modules

This can be any combination of the available modules.

| Module | HI6000-1 | HI6000-2 | HI6000-3 | HI6000-4 |
|---|---|---|---|---|
| Sensor | pH/ORP module | pH/ORP/ISE module | EC module | DO module |

## 3. Choose your probe

### Recommended pH electrodes

Any probe with a **BNC connector** can be used, see the complete list on our website.

| | |
|---|---|
| **HI1043B** | Combined pH electrode for strong acids and bases, glass body, double junction, fillable, with BNC connector and 1 m cable |
| **HI1053B** | Combined pH electrode for emulsions, glass body, triple ceramic junction, fillable, with BNC connector and 1 m cable |
| **HI1083B** | Combined pH electrode for use in biotechnology, glass body, open junction, fillable, with BNC connector and 1 m cable |
| **HI1131B** | pH combination electrode for general use, glass body, ceramic junction, fillable, with BNC connector and 1 m cable |
| **HI3230B** | Combined ORP electrode for general use, plastic body, double junction, gel-filled, with BNC connector and 1 m cable |
| **HI1048Y** | pH/°C Electrode with Clogging Prevention System (CPS™) and BNC and RCA Connector |
| **HI1131Y** | Refillable Combination pH/°C Electrode with BNC and RCA Connector |
| **HI1230Y** | Gel Filled PEI Body pH/°C Electrode with BNC and RCA Connector |

### EC Probe

| | |
|---|---|
| **HI7631233** | EC & Resistivity probe |

### DO probes

| | |
|---|---|
| **HI7641133** | Optical DO (opdo®) probe |
| **HI764833** | Polarographic DO probe |

### Temperature probe

| | |
|---|---|
| **HI7662-TW** | Temperature probe |

**HI6000 meter only General Specifications**

| | | |
|---|---|---|
| Reading | Stability criteria | Accurate; Medium; Fast |
| | Sampling Rate | 1000 ms |
| Logging | Type | Automatic; Manual; Autohold |
| | Number of records | 50 000 maximum per file<br>Stores at least 1 000 000 data points per user |
| | Automatic interval | 1, 2, 5, 10, 30 seconds; 1, 2, 5, 10, 15, 30, 60, 120, 150, 180 minutes |
| | Sample ID | Incremental mode or Manual |
| | Export option | .CSV file format |
| Connectivity | USB-A | 2 ports for keyboard and / or printer input or USB flash drive |
| | USB-C | 1 port for PC connectivity and USB-C type flash drive |
| | Wi-Fi & ethernet | Log transfer and download (web server; email; FTP) |
| | RS232 | Connecting peripherals |
| Calibration reminder | | Daily: 0 minutes to 23 hours 59 minutes<br>Periodic: 1 minute to 30 days, 23 hours and 59 minutes<br>Disabled |
| Users | | Up to 9 users and the default administrator account |
| Power supply | | DC adapter 100-240 VAC to 24 VDC 2A |
| Environment | | 0 to 50 °C / 32 to 122 °F / 273 to 323 K<br>maximum 95 % RH non-condensing |
| Dimensions / Weight | | 205 x 160 x 77 mm / Approximately 1,2 kg |

### Accessories

| | |
|---|---|
| **HI920016** | USB Type A to C Cable |
| **HI6000180** | Magnetic Mini-Stirrer for **HI6000** Series |
| **HI731319** | Stir bars 25 mm (10 pcs) |
| **HI731361** | Retriever bar for magnetic stirrers |
| **HI764113-1** | Replacement optical DO sensing cap for **HI764113** probe |
| **HI764113-2** | Calibration/Storage vessel for **HI764113** optical DO probe |
| **HI764113-3** | Stainless Steel Protective Shield for **HI764113** optical DO probe |
| **HI76483A/P** | DO Membranes for polarographic probe |
| **HI764060** | Electrode holder for **HI6000** Series |
| **SP6000-PRN02** | Thermal printer for **HI6000** Series |
| **SP6000-PRNRL** | Thermal printer replacement Roll |

# Choose your kit

Each preconfigured kit is supplied with electrode holder, calibration solutions starter kit, power adapter and accessories.

## pH/ORP/ISE kit

**HI6222-02** is supplied with:

- HI6000 housing unit
- HI6000-2 pH/ISE module (2 x) + HI1131B pH electrode + HI7662-TW temperature probe
- Calibration solution starter kit for pH

## pH/ORP/ISE + EC kit

**HI6522-02** is supplied with:

- HI6000 housing unit
- HI6000-2 pH/ISE module + HI1131B pH electrode + HI7662-TW temperature probe
- HI6000-3 EC module + HI7631233 EC and resistivity probe
- Calibration solution starter kit for pH and EC

## pH/ORP/ISE +optical (opdo®) DO kit

**HI6542-02** is supplied with:

- HI6000 housing unit
- HI6000-2 pH/ISE module + HI1131B pH electrode + HI7662-TW temperature probe
- HI6000-4 DO module + HI7641133 optical DO probe (opdo®) + HI764113-1 Smart Cap™
- Calibration solution starter kit for pH and DO

## pH/ORP/ISE + polarographic DO kit

**HI6542P-02** is supplied with:

- HI6000 housing unit
- 1 x HI6000-2 pH/ISE module + HI1131B pH electrode + HI7662-TW temperature probe
- 1 x HI6000-4 DO module + HI764833 polarographic DO probe
- Calibration solution starter kit for pH and DO

## pH/ORP/ISE + EC+optical (opdo®) DO kit

**HI6553-02** is supplied with:

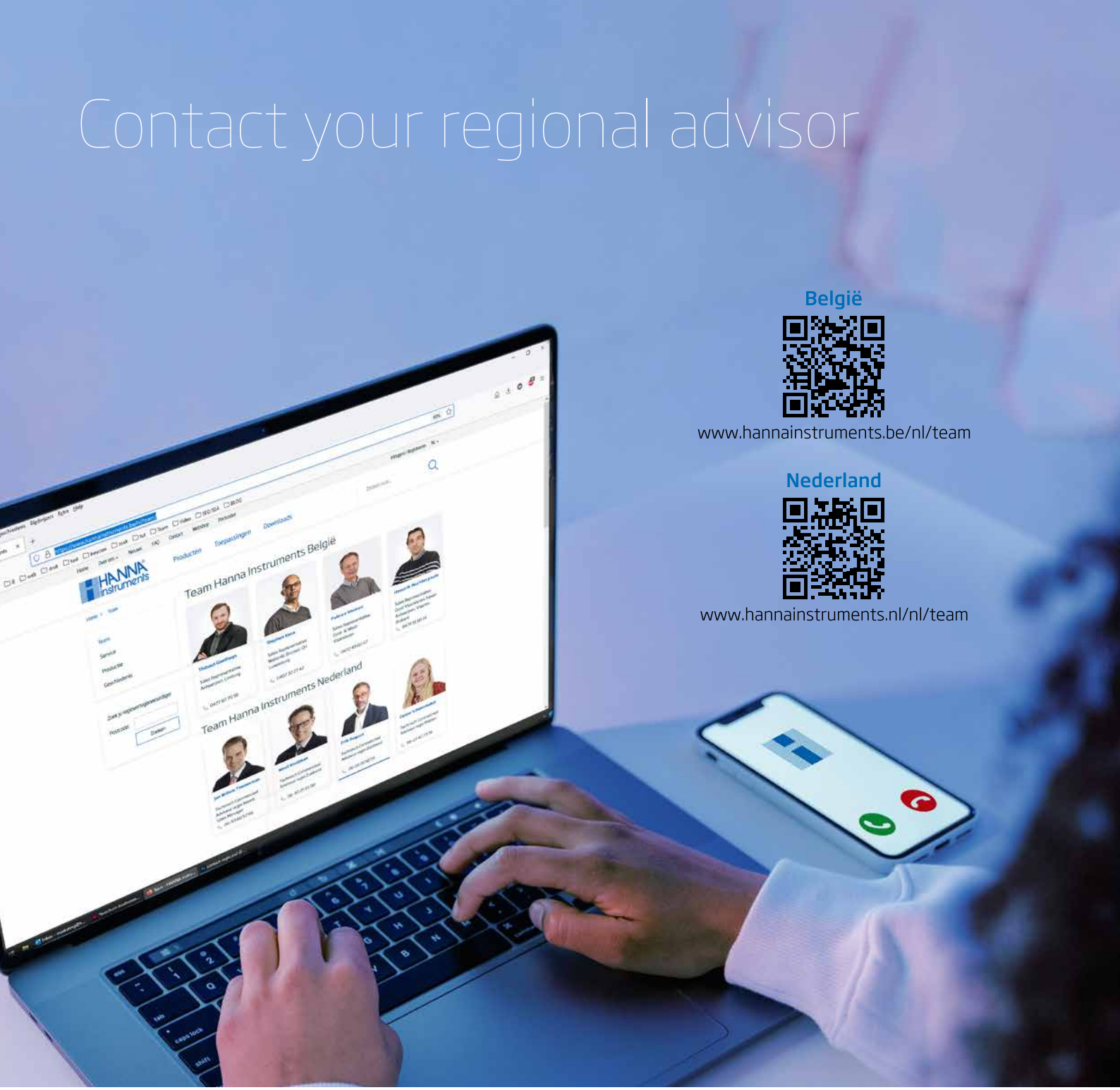
- HI6000 housing unit
- HI6000-2 pH/ORP/ISE module (installed) + HI1131B pH electrode + HI7662-TW temperature probe
- HI6000-3 EC module + HI7631233 EC & resistivity probe
- HI6000-4 DO module+ HI7641133 optical DO probe (opdo®)
- Calibration solution starter kit for pH and DO, EC and DO

## pH/ORP/ISE + EC + polarographic DO kit

**HI6553P-02** is supplied with:

- HI6000 housing unit
- HI6000-2 pH/ORP/ISE module (installed) + HI1131B pH electrode + HI7662-TW temperature probe
- HI6000-3 EC module + HI7631233 EC & resistivity probe
- HI6000-4 DO module + HI764833 polarographic DO probe
- Calibration solution starter kit for pH and DO, EC and DO

# Contact your regional advisor




**België**

www.hannainstruments.be/nl/team

**Nederland**

www.hannainstruments.nl/nl/team

## An experienced team of specialists is ready to provide you with support and personal advice!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