Dear Customer, thank you for choosing Hanna Instruments.

Package contents

• HI6221, HI1131B pH electrode, HI7662-TW temperature probe
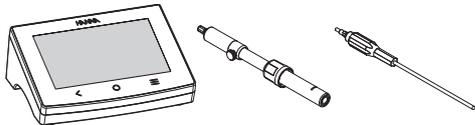
• pH 4.01 buffer solution (2 sachets)
• pH 7.01 buffer solution (4 sachets)
• pH 10.01 buffer solution (2 sachets)
• Electrode cleaning solution (2 sachets)

• 3.5M KCl electrolyte fill solution (30 mL) & capillary pipette (1 pc.)

• Electrode arm with base plate and screw (mounting)

• 24 VDC power adapter and USB-C to USB-A cable
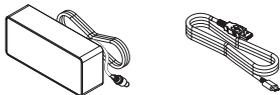
• Probe quality certificates, instrument quality certificate, quick reference guide

Hanna® is committed to developing and deploying digital solutions with a positive impact on the environment and climate.

Please scan the QR code or follow the link to download the user manual.
https://manuals.hannainst.com/HI6221

Getting started

Identify the base plate (1) — to be attached to the **L** or the **R** side — and mounting screw (2) and proceed as illustrated here.
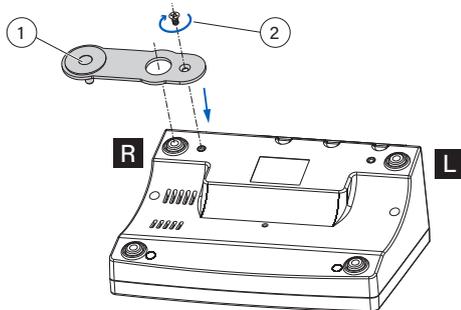
With the arm holder (3) in position and the pH electrode (4) and temperature probe (5) plugged in, connect the power cable (6) and plug into the mains. Press the ON/OFF button (7) to start.
Remove the transparent film that protects the capacitive touchscreen prior to operating the meter.
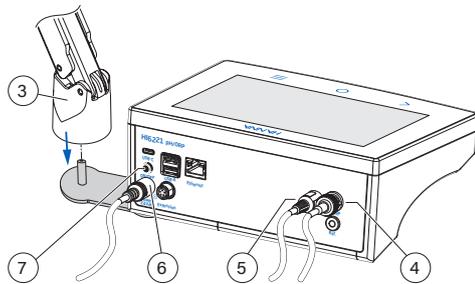

Operating language & Access to support

• At first power on default operating language is English. Browse the language window and select operating language from list of supported options.
• To access support, tap ≡ and select ❓.
  On first access the benchtop's name is used as default user name and no password is required.

Device handling & Safety precautions

• Transport the unit with all cables removed
• Do not puncture the capacitive touchscreen
• Do not insert objects into the ports, spaces around keys other than the intended cable, USB drive

Capacitive touchscreen

<	○	≡
Back key	Home key	Menu key

⚙	😊	🔧	⚙	▶	❓
Channel Settings	Users	System Settings	Measurement Settings	Log Recall	Help
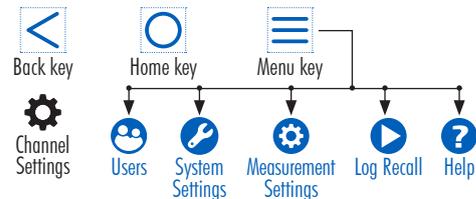
- < return to a previous hierarchical menu level
- ○ access to measurement screen & configured profile
- ≡ access to:
  - ▶ Users – login & rights configuration
  - ▶ System Settings – system configuration, connectivity & printing
  - ▶ Measurement Settings – measurement configuration
  - ▶ Log Recall – logged measurement data
  - ▶ Help – support
- ⚙ from measurement screen, tap to access measurement menu

Electrode usage guidelines & Calibration tips

- Remove protective cap and rinse with water to eliminate salt build up.
- Check correct electrolyte level. Refill when level falls below ½" from the fill hole opening. Keep the fill hole open (1) during calibration and measurement.
- To refresh the the electrode, soak in HI70300 Storage solution for at least 30 minutes.
- Keep the glass bulb (3) and junction (2) hydrated to maintain a quick response time.
  Store with a few drops of storage solution in the protective cap.
- Keep the junction (2) immersed during calibration/measurement.

Calibration tips

- Ensure electrode connection to correct meter input.
- Rinse with the calibration solution intended for calibration next. Discard rinsing solution.
- Place electrode and temperature sensor in calibration solution. Use a rinse beaker and a separate calibration beaker for each buffer.
- On first use, tap **Clear Calibration** to clear all buffers and start new.

pH measurement tips

- Only work with recently calibrated electrodes.
- Use the arm holder for electrode transfer in and out of containers.
- Rinse with purified water between samples.
- Pour two beakers of sample: use one to rinse the sensor and the second for measurement (limit contamination).
- Gently stir the sample to ensure a representative measurement.
- Keep the fill solution topped off to permit the fill solution flow through the ceramic junction and maintain a stable reference signal.
- Record measured data once the reading is stable.

Logging in & Creating a new account

1. Power the meter and tap [Skip].
2. Tap ≡ followed by 😊.
3. Tap **Edit Users** to enter Account Management.

4. Tap ⬤ to enable Account Creation and Logins. Tap < to return.

5. Tap **Logout** to enter Users screen. Tap the plus symbol avatar.

6. Input user name and tap [↵].
7. Enter password and tap [↵]. Re-enter password to confirm.

CE UK CA

Please retain for future use.