



HANNA instruments HI6421 Advanced Dissolved Oxygen Benchtop Meter User Guide

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HANNA instruments HI6421 Advanced Dissolved Oxygen Benchtop Meter



The HI6421 is a benchtop meter designed to measure dissolved oxygen in water samples. The package contents include the benchtop meter, a probe, an arm holder, a power cable, and various accessories such as a smart cap, O-ring, syringe, sachet with grease, purified water, lens wipe, zero oxygen solution, and calibration beakers.

Product Information

Getting Started

1. Place the arm holder in position and plug in the probe.
2. Connect the power cable to the meter and plug it into the mains.
3. Press the ON/OFF button to start the meter.
4. Remove the transparent film that protects the capacitive touchscreen before using the meter.

Operating Language & Access to Support

The benchtop meter uses the device name as the default user name and does not require a password on first access. For technical information, email tech@hannainst.com or visit www.hannainst.com for more information about Hanna Instruments and our products.

Device Handling & Safety Precautions

Always use the intended cable and USB drive. Avoid getting grease or fingerprints onto the optical window. Handle the smart cap with care and align the cutout arrow on the cap with the guide on the probe body.

Product Usage Instruction

Probe Usage Guidelines & Calibration Tips

1. Remove the shipping cap from the probe.
2. Slide the O-ring on the probe tip without rolling or twisting it.

3. Use a syringe to sparingly lubricate the O-ring with grease.
4. Place the smart cap onto the probe body until it snaps in place.
5. Hydrate the cap by placing the probe in purified water for at least 2 hours before use.

Measurement Tips

Wipe off any droplets on the probe and avoid measuring beyond the smart cap.

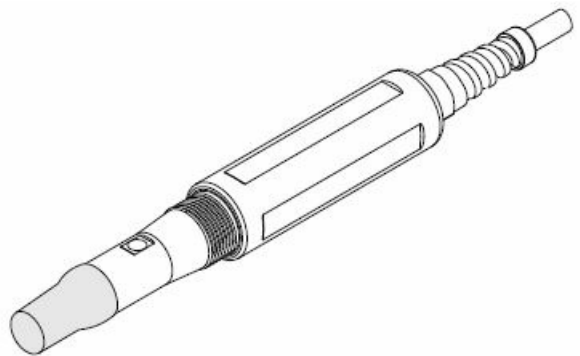
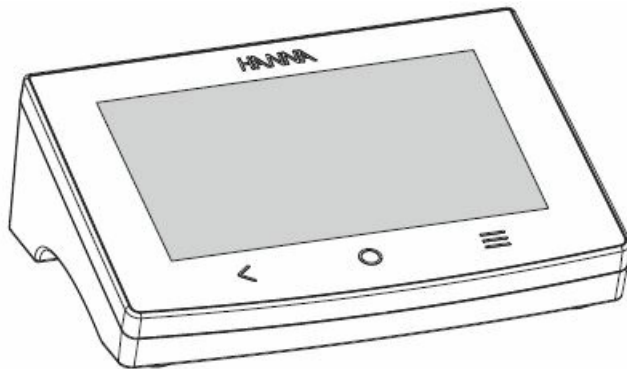
Logging in & Creating a New Account

1. Power the meter and tap the screen.
2. Tap the Home key followed by the Menu key.
3. Tap Edit Users to enter Account Management.
4. Tap to enable Account Creation and Logins. Tap to return.
5. Tap Logout to enter the Users screen and tap the plus symbol avatar.
6. Input the user name and tap OK. Enter the password and tap OK. Re-enter the password to confirm.

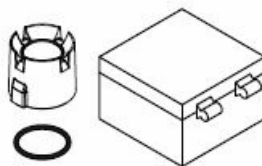
The HI6421 conforms to CE European Directives and UK Standards, and our production facilities are ISO 9001 certified. The meter is warranted for two years and the probe for six months against defects in workmanship and materials when used for their intended purpose and maintained according to instructions.

Package contents

- HI6421
- HI7641133 optical DO probe



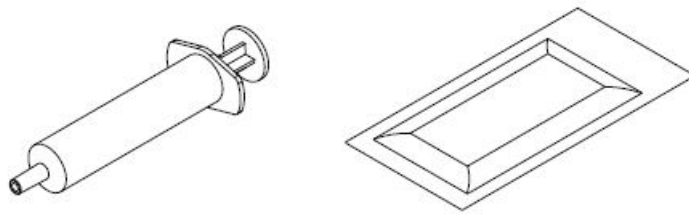
- DO Smart Cap with O-ring (1 pc., each)



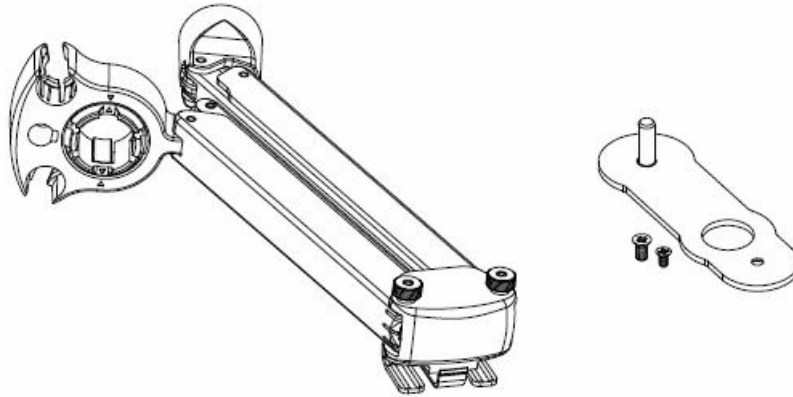
- Calibration beaker (1 pc.)
- Lens cleaning wipe (1 pc.)



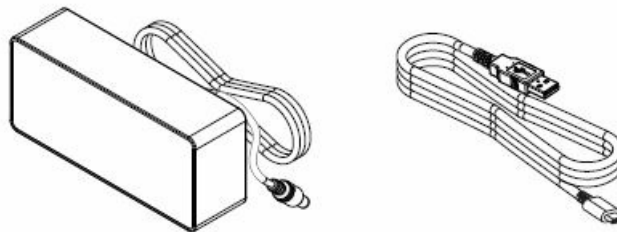
- Syringe and sachet with silicone grease (1 pc., each)



- Electrode arm with base plate and screws (mounting)



- 24 VDC power adapter and USB-C to USB-A cable



- Probe quality certificate, instrument quality certificate, quick reference guide



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

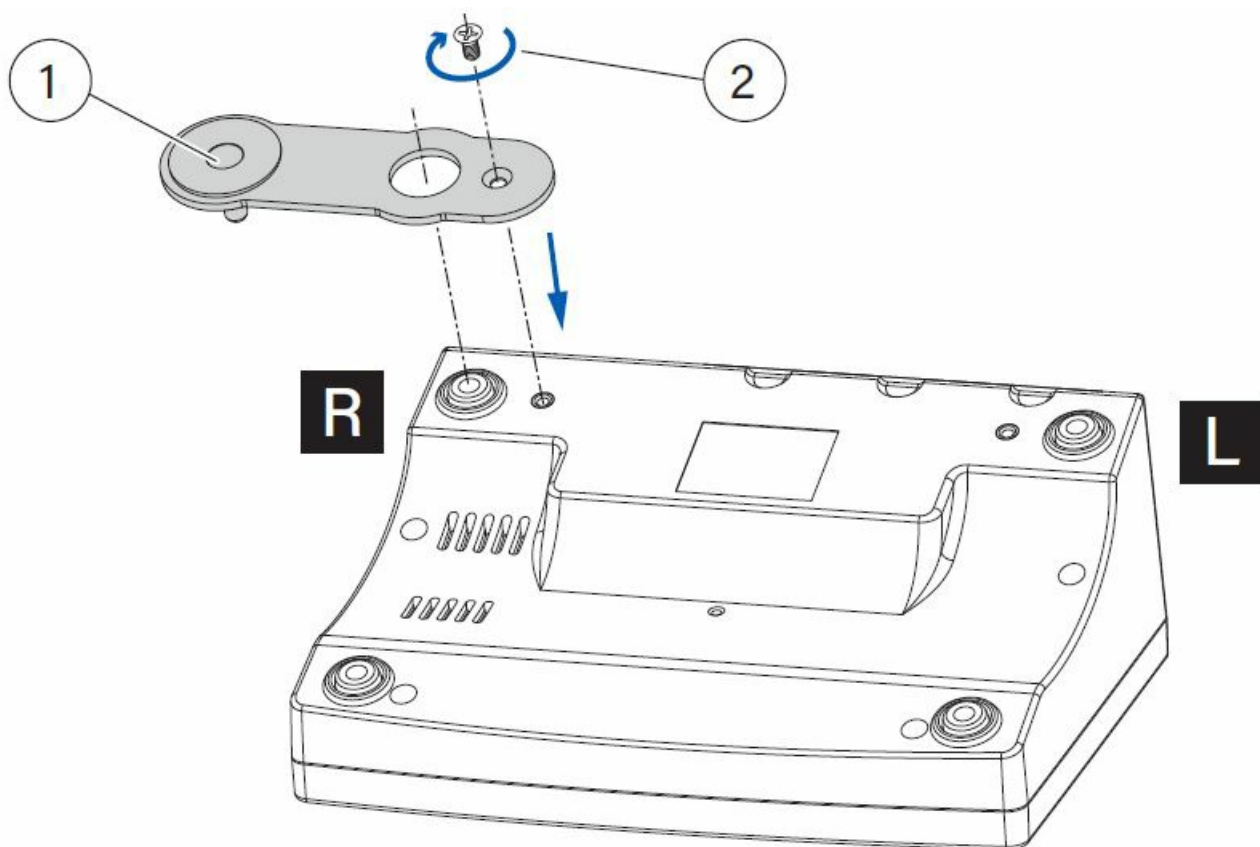
Please scan the QR code or follow the link to download the user manual.

<https://manuals.hannainst.com/HI6421>.

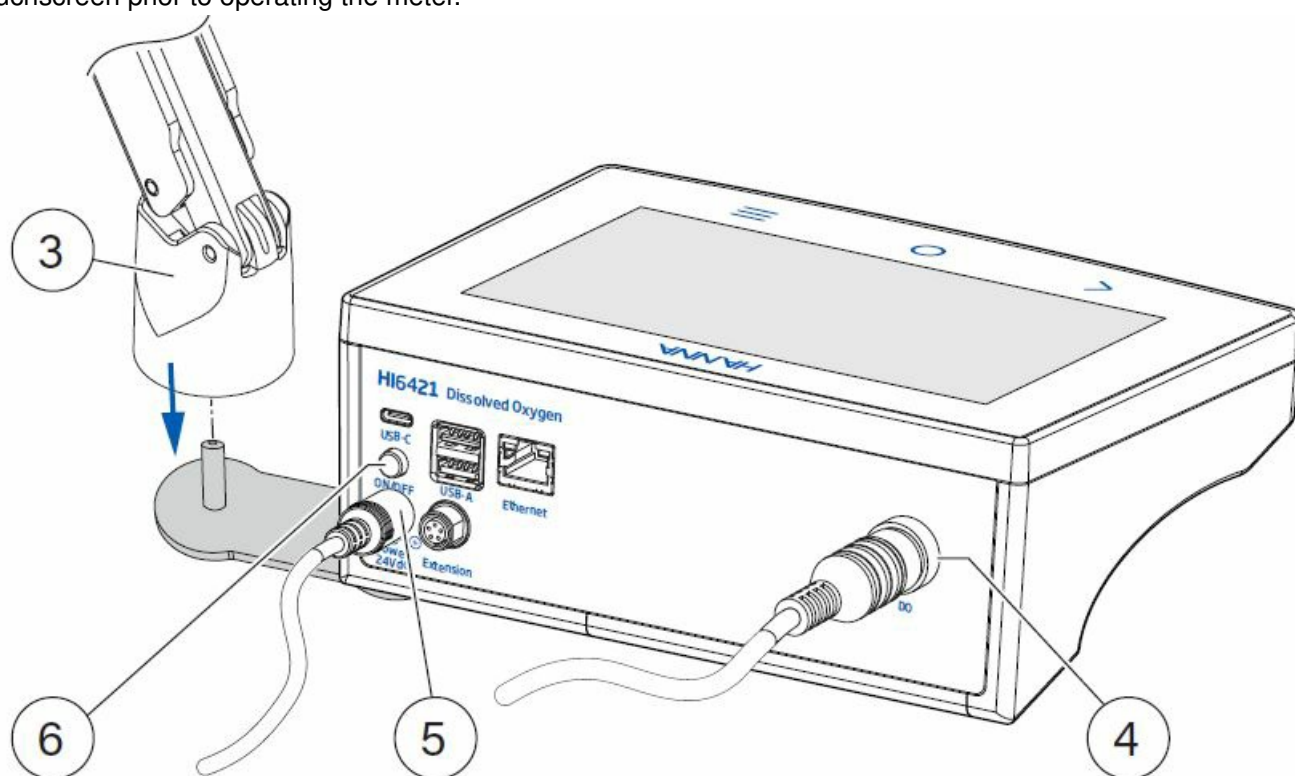


Getting started

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 probe (4) plugged in, connect the power cable (5) and plug into the mains. Press the ON/OFF button (6) 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, the operating language is English. Browse the language window and select an operating language from the list of supported options.

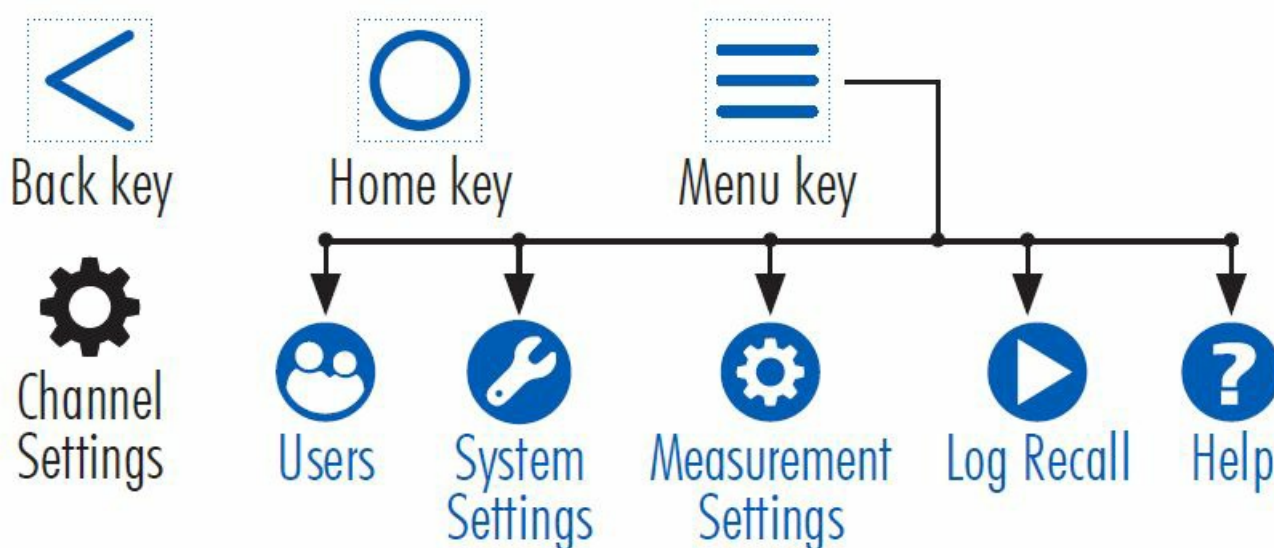
- To access support, tap  and select  .





On first access, the benchtop's name is used as the 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, or spaces around keys other than the intended cable, or USB drive.

Capacitive touchscreen



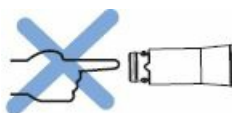
-  return to a previous hierarchical menu level
-  access to the measurement screen & configured profile
-  access to:
 - Users – log in & rights configuration
 - System Settings – system configuration, connectivity & printing
 - Measurement Settings – measurement configuration
 - Log Recall – logged measurement data
 - Help – support
-  from the measurement screen, tap to access the measurement menu

Probe usage guidelines & Calibration tips

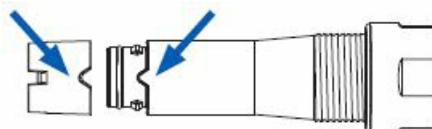
Accessories:

Smart Cap and O-ring, syringe and sachet with grease, purified water, lens wipe, zero oxygen solution, calibration beakers

1. Remove the shipping cap.
2. Slide the O-ring on the probe tip. Do not roll or twist the O-ring.
3. Use a syringe to sparingly lubricate the O-ring with grease. Avoid getting grease or fingerprints onto the optical window.



4. Align the cutout arrow on the Smart Cap with the guide on the probe body.



5. Press the Smart Cap onto the probe body until it snaps in place. Handle the cap with care!
6. Place the probe in purified water for a minimum of 2 hours to hydrate the Cap before use.

Calibration tips

- Ensure the probe is correctly plugged in.
- Rinse with purified water prior to calibration and shake water droplets off the probe.
- 100% saturation calibration: pour some water into supplied calibration beaker, just enough to moisten the sponge at the bottom of the beaker. Screw the beaker onto the probe. Allow 15 minutes for air to become water saturated.
- 0% saturation calibration: pour HI7040 zero oxygen solution into a beaker and stir gently for 2-3 minutes. Gently tap the probe to dislodge any air bubbles.
- Wait for stable reading to calibrate.

Measurement tips

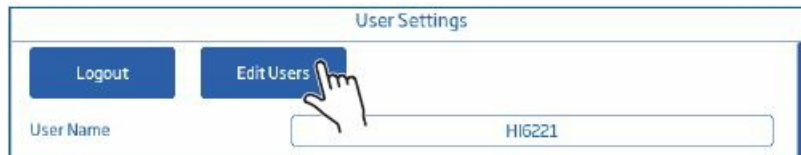
- Work with recently calibrated probes.
- Set Salinity value if measuring ocean or brackish water samples.
- Carefully lower the probe into sample so no trapped air bubbles at the Smart Cap.



Logging in & Creating a new account

1. Power the meter and tap  .
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 the Users screen. Tap the plus symbol avatar.



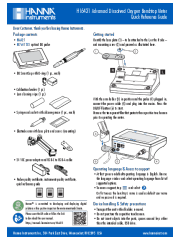
6. Input the user name and tap .

7. Enter the password and tap . Re-enter the password to confirm.

All Hanna instruments conform to the CE European Directives and UK Standards, and our production facilities are ISO 9001 certified. HI6421 is warranted for a period of two years and the probe for six months against defects in workmanship and materials when used for their intended purpose and maintained according to instructions. For technical information e-mail us at tech@hannainst.com. Visit www.hannainst.com for more information about Hanna Instruments and our products.

Hanna Instruments Inc., 584 Park East Drive, Woonsocket, RI 02895 USA. www.hannainst.com.

Documents / Resources

	<p>HANNA instruments HI6421 Advanced Dissolved Oxygen Benchtop Meter [pdf] User Guide</p> <p>HI6421 Advanced Dissolved Oxygen Benchtop Meter, HI6421, Advanced Dissolved Oxygen Benchtop Meter, Dissolved Oxygen Benchtop Meter, Oxygen Benchtop Meter, Benchtop Meter, Meter</p>
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References

-  [HANNA Instruments Manuals Search](#)