

EXTECH

QUICK START

6-in-1 Water Quality Meter with 3 Probes EC700



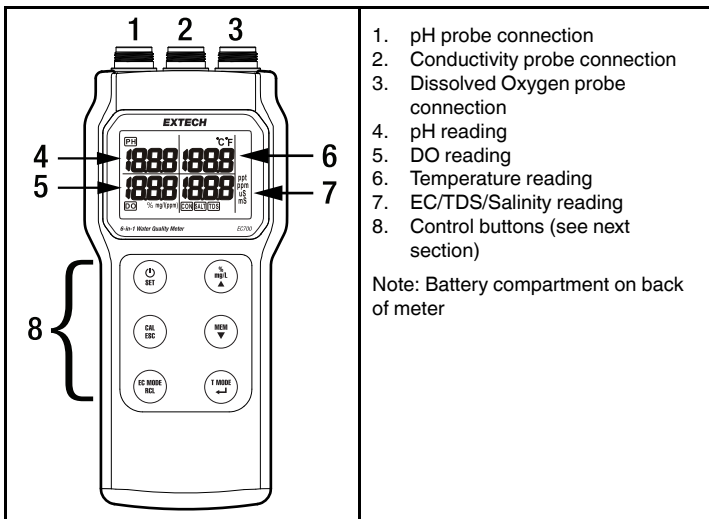
Quick Start (en)

INTRODUCTION







Thank you for selecting the Extech EC700 6-in-1 Water Quality Meter. The EC700 measures pH, EC (Conductivity), TDS (Total Dissolved Solids), Salinity, DO (Dissolved Oxygen), and Temperature.

This Quick Start is intended for initial setup and reference only, please download the detailed User Manual, and additional translations of this Quick Start, at the Extech website. Refer to the User Manual for complete calibration, setup, and maintenance instructions.

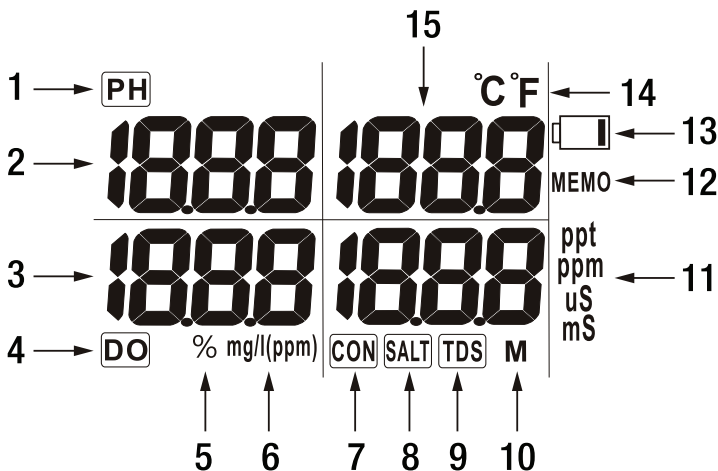
METER DESCRIPTION



CONTROL BUTTONS

	Short press to power ON-OFF Long press to access SETUP mode
	Long press to access calibration mode Press to return to normal mode from other modes
	Press to select Conductivity, Salinity, or TDS Long press to recall stored readings
	Press to toggle DO units Press to increase a setting value
	Press to save reading to memory Press to decrease a setting value
	Press to select specific probe temperature reading In the setup mode, press to prepare a setting for adjustment and then press to confirm the setting after adjustment.

DISPLAY



1. pH probe active
2. pH reading
3. DO reading
4. DO probe active
5. DO % units
6. DO mg/l (ppm) units
7. Conductivity probe active
8. Salinity mode
9. TDS mode
10. Appears when compensation is applied to reading
11. Conductivity/Salinity/TDS units
12. Appears when storing/recalling readings
13. Low battery
14. Temperature units
15. Temperature reading

GETTING STARTED

STEP 1: Inspect the Probes

- pH probe glass should be intact and moist; junction fibre should be clean.
- Conductivity probe should be intact and dry.
- DO probe sensing surface should be free of scratches.

STEP 2: Connect the Probes

- Probe plugs and meter sockets must be clean and their pins straight.
- Connect probes firmly to the meter, observing the keyed alignment guides.
- Once inserted, turn to lock probe in place.

STEP 3: Power the Meter

- Install four (4) AAA batteries in the rear compartment.
- Press the power button to switch ON the meter.

BASIC OPERATION

Dissolved Oxygen (DO)

1. Before first use and after storage, hydrate the sensing surface for two hours by filling the distilled water reservoir.
2. Squeeze out excess water from the sponge.
3. Ensure that the probe surface is dry.
4. Affix the probe cap and let the probe stand vertically (with the meter OFF) for one hour.
5. Power the meter, wait one minute, and check that the reading is between 95.0 and 105.0%.
6. The probe is ready for use.

pH and Conductivity (EC)

1. If the pH electrode is dehydrated, soak for at least four hours in a KCl solution.
2. If the EC probe has been in storage, soak in clean water for at least 30 minutes.
3. Calibrate the pH and EC probes, as explained in the User Manual.
4. The probes are ready for use.

Probe and Measurement Considerations

- **CAUTION!** Use probes in aqueous solutions only. **DO NOT** place probes in viscous, organic liquids, such as heavy oils, glycerin (glycerol), ethylene glycol, or alcohols. **DO NOT** place probes in acetone or nonpolar solvents, such as pentane or hexane.
- If salt or mineral deposits are observed, rinse with distilled or de-ionised water.
- Use probe caps to protect the sensing surface.
- Allow 5 minutes for probes to stabilize in new ambient conditions.
- Stir solutions for 60 seconds and cover probe by at least 5 cm (2 in.) of solution.

Selecting TDS and Salinity Modes

From the EC mode, press **EC/MODE** to switch to TDS or Salinity.

Automatic seawater compensation is standard. For other solutions, set a conversion factor (see User Manual).

Temperature Display

The temperature display shows the temperature measured by the probe whose icon is blinking. Press **T MODE** to select a different probe.

STORE AND RECALL READINGS

Up to 99 readings can be stored. The display will show **FUL** when 99 readings have been stored. Clear all readings in the Setup mode, as explained in the User Manual.

1. Press **MEM** to store reading.
2. Long press **RCL** to recall stored readings. Use the arrow buttons to scroll.
3. Press **ESC** to return to normal operation.

BASIC SPECIFICATIONS

Measurement Ranges

pH range	2.00 to 12.00
Conductivity ranges	0 to 199.9 $\mu\text{S}/\text{cm}$; 0 to 1999 $\mu\text{S}/\text{cm}$ 0 to 19.99 mS/cm ; 0 to 150.0 mS/cm
TDS ranges (multiplied by TDS factor)	0 to 199.9 ppm; 0 to 1999 ppm 0 to 19.99 ppt; 0 to 150.0 ppt
TDS factor	0.30 to 1.00
Salinity ranges	0 to 10.00 ppt 10.0 to 42.0 ppt (seawater)
Dissolved Oxygen ranges	0.0 to 199.9% 0.0 to 20.0 mg/L
Temperature range	-5.0 to 60.0°C (23.0 to 140.0°F) DO probe only: -5.0 to 50.0°C (23.0 to 122.0°F)

Meter Specifications

Battery power	Four (4) AAA batteries
Automatic Power OFF	After one hour of inactivity
Operating conditions	0 to 50°C (32 to 122°F); < 80 % RH
Storage conditions	0 to 60°C (32 to 140°F); < 90 % RH
Dimensions (L x W x H)	169 x 78.3 x 43.4 mm (6.7 x 3.1 x 1.7 in.)
Weight	200 g (7.1 oz.)

Customer Support

Customer Support Local Telephone List:

<https://support.flir.com/contact>

Returns (RMA):

<https://customer.flir.com/Home>

Warranty

Teledyne FLIR warrants this Extech brand instrument to be free of defects in parts and workmanship for two years from date of shipment. To view the full warranty text, please visit the support site, link below.

<https://www.flir.com/support-center/warranty/>

Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

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