



THE RANGER KIT: PH

METER | SENSOR | BUFFERS | CABLE | SLEEVE

EVERYTHING YOU NEED for precision pH readings

Grab a kit and get measuring fast!

The Ranger Kit: pH has everything you need for measuring pH levels in the field.

This kit features The Ranger Handheld field meter at its core.

- The Ranger Handheld is the latest and greatest in our portable meter range - giving you accurate and reliable water quality measurements.
- Although this kit is tailored for pH readings - The Ranger also has connectivity for EC, DO, and ORP sensors.
- This gives you the freedom to expand to other parameters at a later date, without needing to invest in another meter.



WHAT'S IN THE BOX

Your Ranger Kit: pH contains everything you need to get started measuring pH water parameters in the field.

This kit contains -

- The Ranger Handheld
- PH-104 Sensor
- 1 Metre Quick-Snap Cable
- Protective Ranger Sleeve
- 250ml pH 4.00 Buffer
- 250ml pH 7.00 Buffer
- 250ml pH 10.00 Buffer
- 120ml Sample Jar

THE RANGER | INCLUDED



Push-Pull quick sensor connector

IP67 waterproof with sensor auto-detect means plug and play

IN THE BOX

- Power Adaptor
- USB Data Cable
- Protector Caps

Colour Coded parameter icons

For easy identification



Class-leading optically bonded Gorilla Glass

Strong and cuts out glare

Rugged IP67 waterproof housing

Designed for real-life use



PH-104 SENSOR | INCLUDED



The pH sensor uses two junctions to reduce contamination of the reference. Factory-calibrated, integrated temperature simplifies measurement and calibration, saving time and reducing errors. Designed to be calibrated in multiple buffer sets and with built-in health tracking gives you full flexibility and full transparency.

- Double junction design
- Integrated temperature
- Protective guard

VIEW THE PH-104 DATASHEET

3m, 5m, and 10m cables are also available as an option.

If you would like one of these cable options instead of the standard 1 metre, please reach out to us for a quote.



SPECIFICATIONS

THE RANGER HANDHELD

RANGER

Channels	3x Universal Isolated Sensor Channels
Connectors	Light Weight Aluminium PushPull Connectors
Charging & Data Transfer	Magnetic USB-C Cable
Display	High Resolution, Sunlight Readable 4.0" , 480x800, 233ppi, with Gorilla Glass
Keypad	Mechanical Switches rated to 500,000 key presses
Battery	Built In Fast Charge Lithium Battery. 20%-80% in 2 Hrs Recharge
Battery Life	Approximately 1 week of average use
Data Logging	Up To 10,000 Data Records CSV Format
GLP Features	Date, Time, Calibration, Sensor Identification, Handheld Identification
Body Material	Polycarbonate (Main Body), Silicone (Protective Sleeve)
Operating Temperature Range	0 - 50 °C (Operating), 0 - 40 °C (Charging)
Weight	Approx - 490 grams (Without Protective Sleeve) Approx- 590 grams (With Protective Sleeve)
Size	225mm (L), 85mm (W), 40mm (H) (Without Protective Sleeve) 228mm (L), 91mm (W), 45mm (H) (With Protective Sleeve)
Ingress Protection	IP67

PH-104 RANGER SENSOR



pH Range	0 - 14 pH
pH Resolution	0.01 pH
pH Accuracy	±0.01 pH (calibration-dependent)
pH Response Time	< 30 seconds to 95% of full response
pH Sensor Type	Double junction (sealed) Teflon Ag/AgCl - Bullet Tip
Calibration Buffer Sets	USA, NIST, NIST10, Auto Buffer Recognition
Temperature Sensor	Integrated
Temperature Sensor Resolution	0.1 °C
Temperature Sensor Accuracy	±0.2 °C
Sensor Body Material	Polycarbonate
Sensor Wetted Material	Epoxy
Operating Temperature Range	0 - 80 °C
Weight	93 grams
Size	12mm (sensor diameter), 25mm (cap diameter), 252mm (length)
Ingress Protection	IP67

Specifications subject to change