



Elite series waterproof pocket testers

Accurate, on-the-go solutions for water analysis

Elite series pocket testers

Main features

- Flexible testing option
- Large backlit graphic display
- pH, spear, conductivity and pH/conductivity models
- Uses 4 x AAA alkaline batteries
- Average 150-250 hours of battery life
- Wide leakproof cap serves as stable base
- Replaceable sensors
- One-year warranty for tester



Elite pH pocket tester

pH and temperature

The Thermo Scientific™ Elite pH pocket tester features a simultaneous display of pH and temperature. One of the most common scientific measurements in the world today is pH, which measures the alkalinity and acidity of a liquid. Common industries that measure pH range from drinking water and wastewater treatment, chemical production, aquaculture, agriculture research and production, environmental monitoring, chemical and life sciences research, biochemical and pharmaceutical research, electronics production to food processing and other industrial applications.

Specifications		
pH	Range	-1.00 to 15.00 pH
	Resolution	0.01 pH
	Relative accuracy	±0.02 pH
	Calibration points	Up to 3 points
	Buffer set standard selection	USA - 4.01, 7.00, 10.01 NIST - 4.01, 6.86, 9.18
	Calibration window	±1.00 pH
	Calibration type	Point to point
Temperature	Range	0 to 60.0°C, 32.0 to 140.0°F
	Resolution	0.1°C, 0.1°F
	Accuracy	±0.6°C, ±1.0°F: 0.0 to 50.0°C, ±1.1°C, ±1.9°F: 50.1 to 60.0°C
	Compensation	Yes (ATC)
	Calibration window	±5.0°C, ±9.0°F
Accessories	Replacement pH sensor, soft carry case, lanyard, clear sample/storage cap, AAA batteries	
General	Display	Graphic, dot matrix 80 x 100 pixel
	Backlight	Yes, selectable (30 sec from the last key press)
	Auto shutoff	8.5 min (from last key press)
	Reset	User, factory
	Hold function	Yes
	Power requirements	4 AAA batteries
	Battery life	250 hours (average)
	Ingress protection	IP67 waterproof
	Regulatory certifications	CE, FCC
Environmental operating conditions	Operating temp.	5 to 45°C
	Relative humidity	5 to 85% non-condensing



Ordering Information

Product Description	Cat. No.
Pocket tester	
Thermo Scientific Elite pH pocket tester	ELITEPH
Thermo Scientific Elite pH pocket tester kit	ELITEPHKIT
Replacement pH sensor	01X001535
pH buffer pouches	
pH 4.01 buffer (NIST traceable), 25 x 15 mL pouches	910425
pH 7.00 buffer (NIST traceable), 25 x 15 mL pouches	910725
pH 10.01 buffer (NIST traceable), 25 x 15 mL pouches	911025-WA
pH electrode rinse solution 25 x 15 mL pouches	911125
Storage & Cleaning Solutions	
Storage solution for pH sensor, 480 mL	910001
General cleaning solution for pH electrodes, 4 x 60 mL	900024

Elite CTS pocket tester with pin/cup sensors

Conductivity, TDS, salinity, and temperature

The Elite CTS pocket tester simultaneously displays conductivity, total dissolved solids (TDS) or salinity with temperature. These measurements are ideal in applications such as environmental, agriculture, aquaculture and aquariums, hydroponics, pools and spas, education, and industrial (cooling towers). Applications in these industries may require a constant measurement of salinity and TDS. Select the cup sensor to read samples using a fillable tester or the pin sensor to read samples using a direct-insert tester.

Specifications		
Conductivity	Range	0.00 to 20.00 mS/cm
	Resolution	0.1 μ S/cm: 0.0 to 200.0 μ S/cm, 1 μ S/cm: 200 to 2000 μ S/cm, 0.01 mS/cm: 2.00 to 20.00 mS/cm
	Relative accuracy	$\pm 1\%$ of full scale
	Normalization temperature	25.0°C
	Temperature coefficient	0.0 to 10.00%
	Calibration points	Up to 3 points
TDS	Range	0.00 to 10.00 ppt (depending on TDS factor)
	Resolution	0.1 ppm: 0.0 to 100.0 ppm, 1 ppm: 100 to 1000 ppm, 0.01 ppt: 0.10 to 10.00 ppt
	Relative accuracy	$\pm 1\%$ full scale
	Calibration points	Up to 3 points
	TDS factor	0.40 to 1.00
Salinity	Range	0.00 to 10.00 ppt
	Resolution	0.10 ppt
	Relative accuracy	$\pm 1\%$ of full scale
	Calibration point	One
Temperature	Range	0 to 60.0°C, 32.0 to 140.0°F
	Resolution	0.1°C, 0.1°F
	Accuracy	$\pm 0.6^\circ\text{C}$, $\pm 1.0^\circ\text{F}$: 0.0 to 50.0°C, $\pm 1.1^\circ\text{C}$, $\pm 1.9^\circ\text{F}$: 50.1 to 60.0°C
	Compensation	Yes (ATC)
Accessories	Calibration window	$\pm 5.0^\circ\text{C}$, $\pm 9.0^\circ\text{F}$
Accessories		
Replacement CTS sensor, soft carry case, lanyard, clear sample/storage cap, AAA batteries		

For General and Environmental specifications, please see table on page 9.



Ordering Information	
Product Description	Cat. No.
Pocket tester	
Thermo Scientific Elite CTS pocket tester with pin sensor kit	ELIRECTSPINKIT
Replacement CTS pin sensor	01X001526
Thermo Scientific Elite CTS pocket tester with cup sensor kit	ELIRECTSCUPKIT
Replacement CTS cup sensor	01X001528
Conductivity/TDS standard solutions and pouches	
1413 μ S/cm conductivity standard, 692 ppm as NaCl TDS standard, 10 x 15 mL pouches	01100710
1413 μ S/cm conductivity standard, 692 ppm as NaCl TDS standard, 5 x 60 mL bottles	011007
12.9 mS/cm conductivity standard, 7230 ppm as NaCl TDS standard, 10 x 15 mL pouches	01100610
12.9 mS/cm conductivity standard, 7230 ppm as NaCl TDS standard, 5 x 60 mL bottles	011006

Elite ORP pocket tester

ORP (Oxidation-reduction potential)

The Elite ORP pocket tester features a simultaneous display of the redox measurement with temperature (manual input). Oxidation-Reduction Potential (ORP) or Redox potential measurements are used to monitor chemical reactions, to quantify ion activity, or to determine the oxidizing or reducing properties of a solution. Ideal for applications such as hydroponics, food and beverage, environmental, drinking water, wastewater, agriculture, aquaculture and aquariums, pools and spas, education, and industrial (cooling towers).



Specifications		
ORP	Range	-1000 to 1000 mV
	Resolution	±1 mV
	Relative accuracy	±3 mV
	Calibration point	One
	Calibration window	±200 mV
	Calibration type	Offset
Temperature	Range	0 to 60.0°C, 32.0 to 140.0°F
	Resolution	0.1°C, 0.1°F
	Compensation	Yes, manual input
	Input window	0 to 60.0°C, 32.0 to 140.0°F
Accessories	Replacement sensor, soft carry case, lanyard, clear sample/storage cap, AAA batteries	
General	Display	Graphic, dot matrix 80 x 100 pixel
	Backlight	Yes, selectable (30 sec from the last key press)
	Auto shutoff	8.5 min (from last key press)
	Reset	User, factory
	Hold function	Yes
	Power requirements	4 AAA batteries
	Battery life	>250 hr (pH, ORP, pH spear) >150 hr (CTS, PCTS)
	Ingress protection	IP67 waterproof
	Regulatory certifications	CE, FCC
Environmental operating conditions	Operating temp.	5 to 45°C
	Relative humidity	5 to 85% non-condensing



Ordering Information

Product Description	Cat. No.
Pocket tester	
Thermo Scientific Elite ORP pocket tester	ELITEORP
Replacement ORP sensor	01X001524
Storage and cleaning solutions	
Storage solution for pH and ORP sensor, 480 mL	910001

Elite PCTS pocket tester

pH, conductivity, TDS, salinity, and temperature

The Elite PCTS pocket tester simultaneously displays pH, conductivity, TDS or salinity with temperature. This offers a suitable method to measuring multiple parameters with just one instrument. This tester can be used with the following applications: hydroponics, food and beverage, environmental, drinking water, wastewater, agriculture, aquaculture and aquariums, pools and spas, education, and industrial (cooling towers).

Specifications		
pH	Range	-1.00 to 15.00 pH
	Resolution	0.01 pH
	Relative accuracy	±0.02 pH
	Calibration points	Up to 3 points
	Buffer set standard selection	USA - 4.01, 7.00, 10.01 NIST - 4.01, 6.86, 9.18
	Calibration window	±1.00 pH
	Calibration type	Point to point
Conductivity	Range	0.00 to 20.00 mS/cm
	Resolution	0.1 µS/cm: 0.0 to 200.0 µS/cm, 1 µS/cm: 200 to 2000 µS/cm, 0.01 mS/cm: 2.00 to 20.00 mS/cm
	Relative accuracy	±1% full scale
	Normalization temp.	25.0°C
	Temp. coefficient	0.0 to 10.00%
	Calibration points	Up to 3 points
TDS	Range	0.00 to 10.00 ppt (depending on TDS factor)
	Resolution	0.1 ppm: 0.0 to 100.0 ppm, 1 ppm: 100 to 1000 ppm, 0.01 ppt: 0.10 to 10.00 ppt
	Relative accuracy	±1% full scale
	Calibration points	Up to 3 points
	TDS factor	0.40 to 1.00 (selectable)
Salinity	Range	0.00 to 10.00 ppt
	Resolution	0.10 ppt
	Relative accuracy	±1% full scale
	Calibration point	One
Temperature	Range	0 to 60.0°C, 32.0 to 140.0°F
	Resolution	0.1°C, 0.1°F
	Accuracy	±0.6°C, ±1.0°F: 0.0 to 50.0°C, ±1.1°C, ±1.9°F: 50.1 to 60.0°C
	Compensation	Yes (ATC)
Accessories	Calibration window	±5.0°C, ±9.0°F
	Replacement sensor, soft carry case, lanyard, clear sample/storage cap, AAA batteries	

For General and Environmental specifications, please see table on page 11.



Ordering Information	
Product Description	Cat. No.
Pocket tester	
Thermo Scientific Elite PCTS pocket tester	ELITEPCTS
Thermo Scientific Elite PCTS pocket tester kit	ELITEPCTSKIT
Replacement PCTS sensor	01X001530
pH buffer pouches	
pH 4.01 buffer (NIST traceable), 25 x 15 mL pouches	910425
pH 7.00 buffer (NIST traceable), 25 x 15 mL pouches	910725
pH 10.01 buffer (NIST traceable), 25 x 15 mL pouches	911025-WA
pH electrode rinse solution, 25 x 15 mL pouches	911125
Conductivity/TDS standard solution pouches	
1413 µS/cm conductivity standard, 692 ppm as NaCl TDS standard, 10 x 15 mL pouches	01100710
1413 µS/cm conductivity standard, 692 ppm as NaCl TDS standard, 5 x 60 mL bottles	011007
12.9 mS/cm conductivity standard, 7230 ppm as NaCl TDS standard, 10 x 15 mL pouches	01100610
12.9 mS/cm conductivity standard, 7230 ppm as NaCl TDS standard, 5 x 60 mL bottles	011006

Elite pH spear pocket tester

The Elite pH Spear pocket tester features a spear tip open pore sensor. This rugged and user-friendly tester is ideal for direct measurement of solid or semi-solid samples such as cheese, meat, fruit, bread and more. Used in applications such as hydroponics, food and beverage, environmental, drinking water, wastewater, agriculture, aquaculture and aquariums, pools and spas, education, and industrial (cooling towers).



Specifications		
pH	Range	-1.00 to 15.00 pH
	Resolution	0.01 pH
	Relative accuracy	±0.02 pH
	Calibration points	Up to 3 points
	Buffer set standard selection	USA - 4.01, 7.00, 10.01 NIST - 4.01, 6.86, 9.18
	Calibration window	±1.00 pH
	Calibration type	Point to point
Temperature	Range	0 to 60.0°C 32.0 to 140.0°F
	Resolution	0.1 °C, 0.1°F
	Compensation	Yes, manual input
	Input window	0 to 60.0°C 32.0 to 140.0°F
Accessories	Replacement pH spear sensor, soft carry case, lanyard, clear sample/storage cap, AAA batteries	
General	Display	Graphic, dot matrix 80 x 100 pixel
	Backlight	Yes, selectable (30 sec from the last key press)
	Auto shutoff	8.5 min (from last key press)
	Reset	User, factory
	Hold function	Yes
	Power requirements	4 AAA batteries
	Battery life	>250 hr (pH, ORP, pH spear) >150 hr (CTS, PCTS)
	Ingress protection	IP67 waterproof
	Regulatory certifications	CE, FCC
Environmental operating conditions	Operating temp.	5 to 45°C
	Relative humidity	5 to 85% non-condensing

Ordering Information

Product Description	Cat. No.
Pocket tester	
Thermo Scientific Elite pH Spear pocket tester	ELITEPHSPEAR
Thermo Scientific Elite pH Spear pocket tester kit	ELITEPHSPEARKIT
Replacement pH spear sensor	01X001538
pH buffer pouches	
pH 4.01 (NIST traceable), box of 25 x 15 mL pouches	910425
pH 7.00 (NIST traceable), box of 25 x 15 mL pouches	910725
pH 10.01 (NIST traceable), box of 25 x 15 mL pouches	911025-WA
pH electrode rinse solution 25 x 15 mL pouches	911125
Storage and cleaning solutions	
Storage solution for pH sensor, 480 mL	910001
General cleaning solution for pH electrodes, 4 x 60 mL	900024