Thermo Scientific Eutech Expert and Elite Series Pocket Testers

Accurate, on-the-go solutions
for water analysis

Thermo Fisher
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Eutech Expert and Elite series Pocket Testers

Eutech Expert Pocket Tester features

• Budget-friendly option

• Large, double line display

• pH and condutivity models

• Uses 4 x 1.5V micro alkaline batteries

• Average 75-100 hours of battery life

• Leakproof cap with fill line

• Long-lasting sensors

• One-year warranty

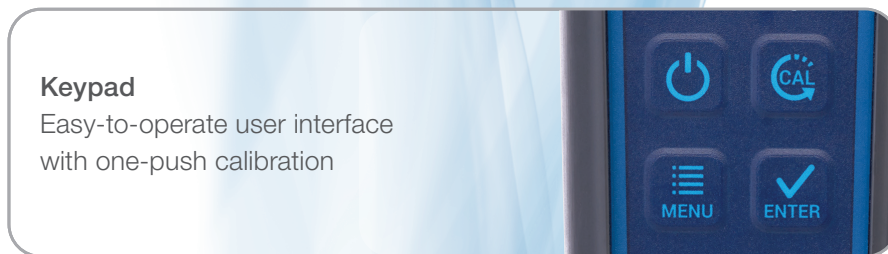## Eutech Elite Pocket Tester features

• Flexible testing option

• Large back-lit graphic display

• pH, spear, conductivity, ORP, and pH/conductivity models

• Uses 4 x AAA alkaline batteries

• Average 150-250 hours of battery life

• Wide leak-proof cap serves as stable base

• Replaceable sensors

• One-year warranty for tester (6 month warranty for replacement sensors)

Portable
Lanyard provision for on-the-go measurements

Keypad
Easy-to-operate user interface with one-push calibration

Storage
Wide, stable base allows the tester to stand independently

Eutech Expert pH Pocket Tester

Eutech Elite pH Pocket Tester

Eutech Expert pH and Expert CTS Pocket Testers

Main features

- Budget-friendly option
- Large, double line display
- pH and condutivity models
- Uses 4 x 1.5V micro alkaline batteries
- Average 75-100 hours of battery life
- Leakproof cap with fill line
- Long-lasting sensors
- One-year warranty

Lanyard provision enables easy transport for on-the-go measurements

Easy battery replacement—no special tools required

Pocket Tester floats and meets IP67 waterproof rating

Cap secures to the top of the tester when not in use

Wide, stable base allows the tester to stand independently

Display:

- Large 4-digit double-line display and wide viewing angle make it easy to read and record measurements
- Battery life, ready, and calibration indicators simplify measurement and maintenance
- Simultaneous display of temperature; user-selectable °C or °F scale

Keypad:

- Easy to operate, intuitive user interface with power, calibration, menu, and enter keys
- Simple calibration: immerse sensor in calibration solution and press "Cal"
- Auto pH buffer recognition, calibration

Cap:

- Gasketed o-ring seal prevents leaks during measurement and storage
- Transparent cap with a fill line indicator for measurement and calibration—no beakers or sample cups needed
- New symmetrical cap can face forward or backward

Additional features:

- Automatic temperature compensation for greater accuracy
- Auto-off function after 8.5 minutes of nonuse to extend battery life
- Multilanguage instructions available
- ABS plastic body is durable and chemically resistant

Eutech Expert pH Pocket Testers

pH and temperature

Simultaneously measure pH and temperature with the Thermo Scientific™ Eutech™ Expert pH Pocket Tester, a pocket sized tester designed to provide accurate measurements on the go for a variety of applications, including hydroponic gardening, aquaculture, agriculture, pools, lab work, and other liquid applications.

- Auto-buffer recognition and auto-calibration make onsite calibration quick and easy

- 3-point calibration allows the tester to accurately measure pH across the acid and alkaline ranges

- ±0.1 pH unit

Applications:
- Hydroponics
- Agriculture
- Aquaculture and aquariums
- Pools and spas
- Education
- Cooling towers
- Water treatment

- Environmental monitoring
- Food and beverage manufacturing
- Printing and more

Specifications		
Measuring parameter		pH, °C, °F
pH	Range	0.0 to 14.0
	Resolution	0.1
	Relative accuracy	±0.1
	Calibration points	1 to 3
Temperature	Range	0 to 50.0°C 32.0 to 122.0°F
	Resolution	0.1°C, 0.1°F
	Relative accuracy	±0.6°C, ±1.0°F
	Automatic compensation	Yes
General	Power	Includes 4 batteries (A76 or LR44 equivalent)
	Battery life	100 hours (average)
	Auto shutoff	8.5 min after last key press
	Operating temp.	5 to 45°C
	Relative humidity	5 to 85% non-condensing
	Ingress protection	IP67 waterproof
	Dimensions (L x W x H)	17 x 4.5 x 3 cm

Ordering information

Product description	Cat. No.
Pocket Tester	
Eutech Expert pH Pocket Tester, batteries	EXPERTPH
pH Buffer sachets	
pH 4.01 buffer (NIST traceable), 20 x 20 ml sachets	ECBU4BS
pH 7.00 buffer (NIST traceable), 20 x 20 ml sachets	ECBU7BS
pH 10.01 buffer (NIST traceable), 20 x 20 ml sachets	ECBU10BS
pH electrode rinse solution, 20 x 20 ml sachets	ECRINWT
pH 4, 7, 10 buffers and rinse solution sachet set, 5 x 20 ml each	ECBU4710R
Storage and cleaning solutions	
Storage solution for pH sensor, 480 ml	ECRE005
Protein remover solution, 480 ml	ECDPCBT
Accessories	
Replacement clear cap for samples and storage	EXPERTCAP

Eutech Expert CTS Pocket Testers

Conductivity, TDS, salinity, and temperature

The Eutech Expert CTS Pocket Tester accurately measures conductivity, total dissolved solids (TDS), salinity, and temperature in one instrument, making it an ideal solution for many applications.

- Automatic calibration with 84 µS/cm, 1413 µS/cm or 12.88 mS/cm conductivity standards

- Linear temperature compensation

Applications:
- Hydroponics

- Agriculture

- Aquaculture and aquariums

- Pools and spas

- Education

- Cooling towers

Specifications		
Measuring parameter		Conductivity, TDS, salinity, °C, °F
Conductivity	Range	0.00 to 20.00 mS/cm
	Resolution	10 µS/cm: 0 to 1990 µS/cm, 0.10 mS/cm: 2.00 to 20.0 mS
	Relative accuracy	±2% full scale
	Automatic calibration values	84 µS/cm, 1413 µS/cm, 12.88 mS/cm
TDS	Range	0.00 to 20.00 ppt
	Resolution	10 ppm: 0 to 1990 ppm, 0.10 ppt: 2.00 to 20.0 ppt
	Relative accuracy	±2% of full scale
	TDS factor	0.40 to 1.00 (selectable)
Salinity	Range	0.0 to 10.0 ppt
	Resolution	0.1 ppt
	Relative accuracy	±2 % of full scale
No. of calibration points		One calibration point per independent parameter
Temperature	Range	0 to 50.0°C; 32.0 to 122.0°F
	Resolution	0.1°C, 0.1°F
	Relative accuracy	±0.6°C, ±1.0°F
	Automatic temp. compensation	Yes
General	Power	Includes (4) batteries (A76 or LR44 equivalent)
	Auto shutoff	8.5 min after last key press
	Battery life	75 hours (average)
	Relative humidity	5 to 85% non-condensing
	Operating temp.	5 to 45°C
	Ingress protection	IP67 rating; waterproof
	Dimensions (L x W x H)	17 x 4.5 x 3 cm

Ordering Information

Product Description	Cat. No.
Pocket Tester	
Eutech Expert CTS Pocket Tester, batteries	EXPERTCTS
Conductivity standard solutions and sachets	
84 µS/cm KCl conductivity standard, 480 ml	ECCON84BT
1413 µS/cm KCl conductivity standard, 480 ml	ECCON1413BT
12.88 mS/cm KCl conductivity standard, 480 ml	ECCON1288BT
1413 µS/cm KCl conductivity standard, box of 20 x 20 ml sachets	ECCON1413BS
TDS 442 standard solutions	
300 ppm 442 TDS standard, 480 ml	EC442300BT
1000 ppm 442 TDS standard, 480 ml	EC4421000BT
3000 ppm 442 TDS standard, 480 ml	EC4423000BT
Salinity (NaCl) standard solution	
5 ppt NaCl salinity standard, 480 ml	ECNACL5PPT
Accessories	
Replacement clear cap for samples and storage	EXPERTCAP

Eutech 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

Lanyard included for on-the-go measurements

Soft carry case for organizing accessories

Includes (4) AAA batteries for operation and easy replacement

Easy-to-replace sensors extend tester life and reduce cost

Wide, stable base allows the tester to stand independently

thermo scientific

pH ✓ 🔋

7.00

25.1 °C

Eutech **Elite pH**

MENU   ENTER

LIFT

MAX

Display:
- Large double-line graphic display with backlight

- Display closer to surface of tester for a better viewing angle

- Simultaneous display of measurement and temperature

Keypad:
- Easy-to-operate user interface with the addition of the menu key

- One-push calibration

Cap:
- Leakproof

- Fill-line indicator for measurement

- Wider, stable base to stand the tester upright

Additional Features:
- Multi-language instructions available

- Pocket Tester floats and meets IP67 waterproof rating

Eutech Elite pH Pocket Tester

pH and temperature

The Thermo Scientific™ Eutech™ 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	
Eutech Elite pH Pocket Tester	ELITEPH
Eutech Elite pH Pocket Tester kit	ELITEPHKIT
Replacement pH sensor	01X001535
pH buffer sachets	
pH 4.01 buffer (NIST traceable), 20 x 20 ml sachets	ECBU4BS
pH 7.00 buffer (NIST traceable), 20 x 20 ml sachets	ECBU7BS
pH 10.01 buffer (NIST traceable), 20 x 20 ml sachets	ECBU10BS
pH electrode rinse solution, 20 x 20 ml sachets	ECRINWT
Storage and cleaning solutions	
Storage solution for pH sensor, 480 ml	ECRE005
Protein remover solution, 480 ml	ECDPCBT

Eutech Elite CTS Pocket Tester with pin/cup sensors

Conductivity, TDS, salinity, and temperature

The Eutech 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.

Eutech Elite CTS
Pocket Tester
with pin sensor

Eutech Elite CTS
Pocket Tester
with cup sensor

Specifications		
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% 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	±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	±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	±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 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	
Eutech Elite Conductivity, TDS, Salinity Pocket Tester with pin sensor	ELITECTSPIN
Replacement CTS pin sensor	01X001526
Eutech Elite Conductivity, TDS, Salinity Pocket Tester with cup sensor kit	ELITECTSCUP
Replacement CTS cup sensor	01X001528
Conductivity standard solutions and sachets	
84 µS/cm KCl conductivity standard, 480 ml	ECCON84BT
1413 µS/cm KCl conductivity standard, 480 ml	ECCON1413BT
12.88 mS/cm KCl conductivity standard, 480 ml	ECCON1288BT
1413 µS/cm KCl conductivity standard, 20 x 20 ml sachets	ECCON1413BT
TDS 442 standard solutions	
300 ppm 442 TDS standard, 480 ml	EC442300BT
1000 ppm 442 TDS standard, 480 ml	EC4421000BT
3000 ppm 442 TDS standard, 480 ml	EC4423000BT
Salinity (NaCl) standard solution	
5 ppt NaCl salinity standard, 480 ml	ECNACL5PPT

Eutech Elite ORP Pocket Tester

ORP (Oxidation-reduction potential)

The Eutech 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	
Eutech Elite ORP Pocket Tester	ELITEORP
Replacement ORP sensor	01X001524
Storage and cleaning solutions	
Storage solution for pH and ORP sensor, 480 ml	ECRE005

Eutech Elite PCTS Pocket Tester

pH, conductivity, TDS, salinity, and temperature

The Eutech 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)
	Calibration window	±5.0°C, ±9.0°F
Accessories	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	
Eutech Elite PCTS Pocket Tester	ELITEPCTS
Eutech Elite PCTS Pocket Tester kit	ELITEPCTSKIT
Replacement PCTS sensor	01X001530
pH buffer, storage and cleaning solutions	
pH 4, 7, 10 buffers and rinse solution sachet set, 5 x 20 ml each	ECBU4710R
Storage solution for pH sensor, 480 ml	ECRE005
Protein remover solution, 480 ml	ECDPCBT
Conductivity standard solutions and sachets	
84 µS/cm KCl conductivity standard, 480 ml	ECCON84BT
1413 µS/cm KCl conductivity standard, 480 ml	ECCON1413BT
12.88 mS/cm KCl conductivity standard, 480 ml	ECCON1288BT
1413 µS/cm KCl conductivity standard, 20 x 20 ml sachets	ECCON1413BT
TDS 442 standard solutions	
300 ppm 442 TDS standard, 480 ml	EC442300BT
1000 ppm 442 TDS standard, 480 ml	EC4421000BT
3000 ppm 442 TDS standard, 480 ml	EC4423000BT
Salinity (NaCl) standard solutions	
5 ppt NaCl salinity standard, 480 ml	ECNACL5PPT

Eutech Elite pH Spear Pocket Testers

The Eutech 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	
Eutech Elite pH Spear Pocket Tester	ELITEPHSPEAR
Eutech Elite pH Spear Pocket Tester kit	ELITEPHSPEARKIT
Replacement pH spear sensor	01X001538
pH buffer sachets	
pH 4.01 buffer (NIST traceable), 20 x 20 ml sachets	ECBU4BS
pH 7.00 buffer (NIST traceable), 20 x 20 ml sachets	ECBU7BS
pH 10.01 buffer (NIST traceable), 20 x 20 ml sachets	ECBU10BS
pH electrode rinse solution 20 x 20 ml sachets	ECRINWT
Storage and cleaning solutions	
Storage solution for pH sensor, 480 ml	ECRE005
Protein remover solution, 480 ml	ECDPCBT

thermoscientific

Eutech Expert
pH Pocket Tester

Eutech Expert CTS
Pocket Tester
(Pin)

Eutech Elite
PCTS
Pocket Tester

Eutech Elite
pH Spear
Pocket Tester

Eutech Elite
pH Pocket Tester

Eutech Elite CTS
Pocket Tester
(Pin)

Eutech Elite CTS
Pocket Tester
(Cup)

Eutech Elite ORP
Pocket Tester

Find out more at **thermofisher.com/testers**

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