

## Digital Meters



EN16-102



### pH / °C Waterproof, Pocket Meter

- Measures pH and Temperature, simple to use and waterproof
- Large custom dual display and unique ribbed body for better grip
- ±0.01 pH accuracy
- Temperature (°C) readout is suitable for most ASTM and EPA test procedures
- User replaceable double junction electrode - ideal for dirty water, heavy metals, sulfides, and organics
- Auto-buffer recognition with choice of USA or NIST pH buffer standards
- Push-button calibration, Self-diagnostic messages, HOLD function, Auto-off, and Automatic Temperature Compensation

Specification		
Parameter	pH	Temperature
Range	-1.00 to 15.00 pH	0.0 to 50.0 °C
Resolution	0.01 pH	0.1°C
Accuracy	±0.01 pH	±0.5°C
Calibration	Up to 3 points USA: 4.01, 7.0, 10.01 NIST: pH 4.01, 6.86, 9.18	±5°C in 1°C increments
Automatic temperature compensation (ATC)	-	Yes

Catalogue No	Description
<b>EN16-102</b>	pH / °C, Waterproof, Pocket Meter
<b>EN16-104</b>	Replacement sensor

EN16-106



### pH / °C / mV Hand Held Meter

- Portable meter measuring pH, Temperature and mV
- Very economical, low cost but high performance in pH accuracy and resolution
- mV measurement mode is useful for ORP measurements
- Multi-point calibration (up to 3 points)
- Push-button calibration, self-diagnostic messages, Hold function
- Auto-off feature
- Supplied complete with pH electrode, carrying kit and calibration standards and temperature probe

Specification			
Parameter	pH	Temperature	mV or Rel mV
Range	0.01 to 14.00 pH	0.0 to 100.0°C	±1000 mV
Resolution	0.01 pH	0.1°C	1 mV
Accuracy	0.01 pH	±0.5°C	±2 mV
Calibration	Up to 3 points (min 2)	±5.0°C (0.1°C increments)	±50mV (0.1 mV increments)

Catalogue No	Description
<b>EN16-106</b>	pH / °C / mV Hand Held Meter
<b>EN16-108</b>	Replacement pH electrode, plastic body, gel filled
<b>EN16-110</b>	Replacement temperature probe

## pH / °C / mV Advanced Hand Held Meter

- Handheld pH meter for measuring pH, mV and Temperature
- Multi-point pH calibration (up to 6 Points) with pH buffer standards
- Auto-buffer recognition with for hassle-free operation
- Non-volatile memory stores and recalls up to 100 sets of pH and mV
- Self-diagnostic messages
- Ready indicator
- Auto-off
- RS232 output to PC with DAS software
- Supplied complete with pH electrode, temperature probe, 2 electrode holders and carrying case

EN16-111



Specification			
Parameter	pH	mV or Rel mV	Temperature
Range	-2.00 to 16.00pH	± 1999 mV (Extended)	-10 to 110°C
Resolution	0.01 pH	0.1 mV (within ±199.9mV) 1mV (beyond ±199.9 mV)	0.1°C
Accuracy	±0.01 pH	±0.2 mV (within ±199.9mV) ±2mV (beyond ±199.9 mV)	±0.5°C
Calibration	up to 5 points	—	±5.0°C (0.1° increments)

Catalogue No	Description
<b>EN16-111</b>	pH / °C / mV Hand Held Meter
<b>EN16-116</b>	Replacement pH electrode, plastic body, gel filled
<b>EN16-110</b>	Replacement temperature probe

## pH / °C / mV Waterproof, Hand Held Meter

- Compact and rugged waterproof meter for measuring pH, mV, Relative mV and Temperature
- Non-volatile memory stores and recalls up to 50 sets of pH, mV or relative mV readings with temperature (°C / °F)
- Real-time clock stamps stored data and calibration data with date / time
- Multi-point pH calibration (up to 6 points) with Auto-buffer recognition for choice of USA, NIST, and DIN pH buffer standards
- Advanced setup allows you to customise meter parameters where required
- Self-diagnostic messages, ready indicator, auto-hold function, auto-off features
- Supplied with double junction pH electrode, temperature probe and case

EN16-112



Specification			
Parameter	pH	mV or Rel mV	Temperature
Range	-2.00 to 16.00 pH	±2000 mV	0.0 to 100.0°C
Resolution	0.01 pH	0.1 mV (within ±199.9mV) 1 mV (beyond ±200 mV)	0.1°C
Accuracy	± 0.01 pH	±0.2 mV (within ±199.9mV) ± 1 mV (beyond ±200 mV)	± 0.3°C
Calibration	Up to 6 points	± 150 mV (1 mV increments)	± 5.0°C (0.1° increments)

Catalogue No	Description
<b>EN16-112</b>	pH / °C / mV Waterproof, Hand Held Meter
<b>EN16-116</b>	Replacement pH electrode, plastic body, gel filled
<b>EN16-118</b>	Replacement temperature probe

Water Quality Testing

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Soil / Sediment Sampling & Analysis

Meteorology

Toxic Gas Detection

Air / Dust Sampling & Monitoring

Air Quality Monitoring

Noise & Vibration Monitoring

Laboratory Analytical Equipment

Mobile Laboratories

Training

EN16-114



## pH / °C / mV Bench Meter

Economical, user-friendly and accurate, the pH 700 is your ideal choice for routine applications in laboratories, productions plants and schools.

- Large, easy-to-read display
- Ready indicator let you know when readings are stable
- Up to 5-point calibration with auto-buffer recognition
- Non-volatile memory holds up to 100 data points
- Integral electrode holder

### Specification

Parameter	pH	ORP	Temperature
Range	-2.00 to 16.00 pH	± 2000 mV	0.0 to 100.0°C
Rel. mV Range	-	± 2000 mV	-
Resolution	0.01 pH	0.1 mV (±199.9mV) / 1mV (beyond)	0.1°C
Accuracy	± 0.01 pH	±0.2 mV (±199.9mV) / ±2mV (beyond)	±0.3°C
Compensation	-	-	ATC / MTC (0 to 100°C) (pH only)
Calibration	up to 5	-	Offset in 0.1 °increments; offset range: ±5.0°C
Buffer Sets	USA, NIST	-	-
Power Requirements	-	-	9 V DC adapter, 1.3 A (100 / 240 VAC, SMPS)

Catalogue No	Description
<b>EN16-114</b>	pH / °C / mV Bench Meter
<b>EN16-108</b>	Replacement pH electrode
<b>EN16-124</b>	Replacement temperature probe

EN16-120



## Ion / pH / °C Bench Meter

An intuitive, self-diagnostic and flexible instrument with advanced set-up options for user-customization. View pH, ION or Redox reading together with temperature, electrode status, calibration points, date and time all at once.

- Up to 6-point push button calibration with auto-buffer recognition
- Quick, easy electrode diagnosis with pH slope and offset display
- Non-volatile memory holds up to 500 data points – time and date-stamped
- Bi-directional RS232 for easy data transfer to computer
- Cal-due alarm – no more out-dated calibrations
- Auto-logging function for convenient continuous monitoring
- Limit alarm alerts when reading falls out of range
- Password protection for setup and calibration

### Specification

Parameter	pH	ORP	ION	Temperature
Range	-2.000 to 20.000 pH	±2000.0 mV	0.001 TO 19999 PPM (±2000 mV)	0.0 to 100.0°C
Rel. mV Range	-	±2000.0 mV	-	-
Resolution	0.1 / 0.01 / 0.001 pH	0.1 mV	2 or 3 digits	0.1°C
Accuracy	±0.002 pH + 1LSD	±0.2 mV	0.5% full scale (monovalent); 1% full scale (divalent)	±0.3°C
Calibration	Up to 6 preset or 5 custom	-	2 to 8	-
Buffer Sets	USA, NIST, DIN User 1, User 2, Custom	-	-	-
Power Requirements	9 V DC adapter, 1.3 A (100 / 240 VAC, SMPS)			

Catalogue No	Description
<b>EN16-120</b>	Ion pH / °C Bench Meter
<b>EN16-122</b>	Replacement ion / pH electrode
<b>EN16-124</b>	Replacement temperature probe

## pH / °C / mV Advanced Bench Meter

The advanced Bench Meter offers easy, single-channel operation for pH and ORP measurements without compromising on performance or features.

- Auto-calibrates with up to five pH buffers from three standard sets and fifteen different buffers; also accepts custom buffers and manual calibration
- Accepts standard BNC pH glass electrodes and DIN pH ISFET electrodes - no need for adapters
- Wide pH and mV measurement range of -2.000 to 20.000 pH and  $\pm 2000.0$  mV
- Advanced real-time on-screen graphing function provides useful indication for specific measurements such as titration.
- Advanced USB, IRDA connectivity allows extensive host / device communication capabilities.
- Ethernet / Internet-ready with RJ45 input for connection to LAN or Internet for quick research and data sharing.
- Secure log-in for up to ten users
- Complete with pH electrode, ATC probe, electrode holder, SMPS power adapter, RS232 cable & software

EN16-126



Specification			
Model No	pH	Temp	mV
Range	-2.000 to +20.000	-5.0 to 105.0°C	$\pm 2000.0$ mV
Resolution	0.1 / 0.01 / 0.001	0.1°C	0.1mV
Accuracy	$\pm 0.1$ / 0.01 / 0.002	0.2°C	$\pm 0.2$ mV
Memory	100 Data sets		
Output	USB, IrDA, RS232C		
Dimensions (WxDxH) cm	23.5 x 16.5 x 8.9		

Catalogue No	Description
<b>EN16-126</b>	pH / °C / mV Advanced Bench Meter
<b>EN16-127</b>	Replacement pH electrode
<b>EN16-128</b>	Replacement temperature probe

## Conductivity, Waterproof, Pocket Meter

- Measures conductivity and temperature in one simple, portable instrument
- Cup-type sensor scoops or dips into samples for greater flexibility
- Includes Push-button calibration
- HOLD function
- Auto-off
- Self-diagnostic features
- Waterproof,
- Dustproof
- Automatic Temperature Compensation

EN16-129



Specification	
Range	0-200 $\mu$ S/cm, 0-2000 $\mu$ S/cm, 0-20 mS/cm
Resolution	0.1 $\mu$ S/cm, 1 $\mu$ S/cm, 0.01mS/cm
Accuracy	$\pm 1\%$ full scale
Calibration	3 Auto / 3 Manual
Temperature Display	Range: -0°C to 50.0°C; Resolution: 0.1°C; Accuracy: $\pm 0.5$ °C
Temperature Calibration	$\pm 5.0$ °C (0.1°C increments)

Catalogue No	Description
<b>EN16-129</b>	Conductivity, Waterproof Meter
<b>EN16-130</b>	Replacement conductivity sensor

Water Quality Testing

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Soil / Sediment Sampling & Analysis

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Air Quality Monitoring

Noise & Vibration Monitoring

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EN16-132



## Conductivity / TDS / °C Hand Held Meter

- Hand held meter for measuring Conductivity and Temperature
- Single point and multi-point automatic or manual calibration
- User customisation of the following functions:
  - Normalisation temperature
  - Automatic / manual temperature compensation from 0°C to 100°C
  - User adjustable TDS factor
  - Cell constant and reset to factory settings
- Hold and auto power-off functions
- Easy to read high contrast display
- Splash proof keypad designed for easy finger touch operation
- Supplied with a rubber boot to protect the meter from accidental damage
- The hinge at the back allows for easy benchtop viewing
- Supplied with conductivity electrode with ATC and carrying kit set

### Specification

Conductivity range	0 to 19.99, 20.0µS/cm, 199.9 µS/cm, 200 to 1999 µS/cm, 2.00 to 19.99 mS/cm, 20.0 to 199.9 mS/cm
Resolution and accuracy	0.01, 0.1, 1 µS/cm; 0.01, 0.1 mS/cm & ±1% Full Scale
No. of calibration points	5, maximum 1 per range
Temperature range	-10.0 to 110.0°C
Resolution and accuracy	0.1°C & ±0.5°C
Cell constant	0.1, 1.0, 10.0 (selectable)
Temperature coefficient	0.0 to 3.0%/°C
Normalisation temperature	20.0 & 25.0 °C

Catalogue No	Description
<b>EN16-132</b>	Conductivity / TDS / °C Hand Held Meter
<b>EN16-134</b>	Replacement conductivity electrode, ultem-body with ATC, BNC

### Note:

For a wide range of meters and other laboratory equipment please see our General Lab Catalogue.

## Conductivity / TDS / °C Hand Held Meter

EN16-136

- Hand held meter for measuring Conductivity / TDS
- Single and Multi-point automatic or manual calibration
- Automatic / manual temperature compensation from 0 to 100°C
- User adjustable TDS factor
- Hold, power-off and self-diagnostic message functions
- Rugged, splash-proof design
- Supplied complete with carrying case, calibration standards, rinse bottle and conductivity electrode with ATC



Specification			
Measurement	Conductivity	TDS	Temperature
Range	0 to 19.99, 20 to 199.9, 200 to 1999 $\mu$ S/cm; 2.00 to 19.99, 20.0 to 199.9 mS/cm	0 to 9.9, 10 to 99.9, 100 to 999 ppm; 1.00 to 9.99, 10.0 to 99.9ppt	-10°C to 110°C
Resolution	0.01, 0.1, 1 $\mu$ S; 0.01, 0.1mS	0.01, 0.1, 1ppm; 0.01, 0.1ppt	0.1°C
Accuracy	$\pm$ 0.2, 2, 20 $\mu$ S/cm; $\pm$ 0.2, 2mS/cm	$\pm$ 0.1, 1, 10ppm; $\pm$ 0.1, 1ppt	$\pm$ 0.5°C
Calibration	up to 5 points (1 per range)		
TDS Factor		0.40 to 1.00	—

Catalogue No	Description
<b>EN16-136</b>	Conductivity / TDS / °C Hand Held Meter
<b>EN16-138</b>	Replacement conductivity / TDS electrode, ultem-body with 6 pin connector

## Conductivity / TDS / °C Hand Held Meter

EN16-140

- Multi parameter, portable instrument for measuring Conductivity, Temperature and TDS
- Stores and recalls up to 16 sets of readings
- Convenient data transfer with RS232 output
- Multi-point calibration for unprecedented full-range accuracy
- Advanced setup allows you to customise meter parameters
- Self-diagnostic messages, Hold function, Ready indicator, Auto-off features
- Supplied complete with carrying case, bottles, calibration standards and conductivity electrode



Specification			
Measurement	Conductivity	TDS	Temperature
Range	0 to 19.99, 199.9, 1999 $\mu$ S/cm; 2.0 to 19.99mS/cm 20 to 199.99mS/cm	0 to 9.99, 99.9, 999.9 ppm; 9.99, 99.9 ppt, max. 199.9 ppt based on factor settings	0.0°C to 100.0°C;
Resolution	0.05% Full Scale		0.1°C
Accuracy	$\pm$ 1% full scale		$\pm$ 0.5°C
Calibration	4 points (1 per range) Auto 5 points (1 per range) Manual		

Catalogue No	Description
<b>EN16-140</b>	Conductivity / pH / TDS / °C Hand Held Meter
<b>EN16-138</b>	Replacement conductivity / TDS electrode, ultem-body with 6 pin connector

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EN16-144



## Conductivity / pH / TDS / °C Waterproof, Hand Held Meter

- Waterproof and Dustproof Housing - IP67 rated, ideal for rugged harsh conditions. Plus it floats!
- Multi-parameter - toggle between pH/temperature and Conductivity/temperature at touch of buttons
- Multi-Point Push-button Calibration (up to 3/4 points for pH/Conductivity) - for easy, quick calibration
- Auto-Ranging for Conductivity measurements for fast response and best resolution over measurement range
- User-Customization for enhanced flexibility and viewing of Conductivity/TDS effective cell constants per range, electrode diagnosis - pH slope/offset/mV base value, previous calibration points, etc.
- Stability Indicator prompts whenever reading stabilizes
- Auto-Hold Function automatically freezes reading when stabilized for easy viewing and recording
- Easy Interchangeability of electrodes caters for other specialty electrodes for specific applications
- Rugged Carrying Case (Included) provides handy on-site meter calibration and measurement

Specification				
Measurement	Conductivity	TDS	Temperature	pH
Range	0 to 19.99, 199.9, 1999 $\mu\text{S}/\text{cm}$ 0 to 19.99, 199.9 $\text{mS}/\text{cm}$	0 to 9.99, 99.9, 999.9 ppm; 9.99, 99.9 ppt, max of 199.9 ppt (based on factor setting)	0.0°C to 100.0°C	-2 to 16
Resolution	0.01, 0.1, 1 $\mu\text{S}/\text{cm}$ ; 0.01, 0.1 $\text{mS}/\text{cm}$	0.01, 0.1, 1 ppm; 0.01, 0.1, 1 ppt	0.1°C	0.01
Accuracy	±1% full scale		±0.3°C	± 0.01
Calibration	5 points (1 per range)		±5.0°C (0.1°C increments)	Up to 5

Catalogue No	Description
<b>EN16-144</b>	Conductivity / pH / TDS / °C Waterproof, Hand Held Meter
<b>EN16-116</b>	Replacement pH electrode, plastic body, gel filled
<b>EN16-138</b>	Replacement conductivity / TDS electrode, ultem-body with 6 pin connector

## Conductivity / TDS / °C Bench Meter

- Low Cost, high performance meter for measuring Conductivity and TDS with auto-ranging capability for fast response, with ±1% full scale accuracy
- Up to 1 or 5-point automatic or manual calibration
- Non-volatile memory stores and recalls up to 50 data sets of conductivity, TDS readings with temperature
- Advanced setup allows you to customise meter parameters
- Supplied with conductivity electrode (k=1), integral electrode holder and power adaptor

EN16-148



Specification			
Measurement	Conductivity	TDS	Temperature
Range	0 to 19.99, 199.9, 1999 $\mu\text{S}/\text{cm}$ 0 to 19.99, 199.9 $\text{mS}/\text{cm}$	0 to 9.99, 99.9, 999.9 ppm; 9.99, 99.9 ppt, max of 199.9 ppt (depending on factory setting)	-10°C to 110.0°C
Resolution	0.01, 0.1, 1 $\mu\text{S}/\text{cm}$ ; 0.01, 0.1 $\text{mS}/\text{cm}$	0.01, 0.1, 1 ppm; 0.01, 0.1, 1 ppt	0.1°C
Accuracy	±1% full scale + 1 digit		±0.3°C
Calibration	5 points (1 per range)		±5.0°C (0.1°C increments)

Catalogue No	Description
<b>EN16-148</b>	Conductivity / TDS / °C Bench Meter
<b>EN16-150</b>	Replacement conductivity / TDS electrode, ultem-body with 6 pin connector

## Dissolved Oxygen, Waterproof, Hand Held Meter

- Multi parameter waterproof instrument for measuring Dissolved Oxygen (D.O.) and Temperature
- Non-volatile memory stores and recalls up to 50 sets of D.O. readings (mg/1 or ppm or % saturation) with temperature (°C/°F)
- Real-time clock stamps stored data and calibration data with time / date
- Advanced setup allows you to customise meter parameters view calibration data, electrode diagnosis etc
- Automatic compensation for salinity and barometric pressure
- Self-diagnostic messages, HOLD function, Ready indicator, Auto-off features
- Supplied with carrying kit and bottles for solution, submersible D.O. probe and D.O. probe maintenance kit

EN16-152



Specification			
Parameter	mg/1 (ppm)	% Saturation	Temperature
Range	0.00 to 20.00 mg/1 (ppm)	0.0 to 200%	0 to 100.0°C
Resolution	0.01 mg/1 (ppm)	0.1%	0.1°C
Accuracy	±1.5% full scale	±1.5% full scale	±0.3°C
Calibration	1 point (100% air saturation or in air saturated water); plus separate mg/1 (ppm) offset		±5.0°C (0.1° increments)

Catalogue No	Description
EN16-152	Dissolved Oxygen, Waterproof, Hand Held Meter
EN16-154	Replacement galvanic dissolved oxygen electrode with ATC, 3m cable

## Dissolved Oxygen / °C Bench Meter

Designed for optimal performance and versatility, the D.O. meter come with intuitive, advance set-up options for extensive user-customization at an affordable price.

Meter comes with self-stirring probe and bi-directional RS232 – ideal for BOD and other Dissolved Oxygen applications in the laboratory.

- Measures Dissolved Oxygen in % saturation, ppm, mg/L at ±0.5 % full scale accuracy
- Automatic calibration at 100 % and independent 0 % – greater measurement sensitivity during low oxygen levels
- Accurate readings in varying conditions with Temperature, Salinity and Barometric Pressure Compensation
- Non-volatile memory holds up to 500 data points – time and date-stamped for GLP compliance
- Bi-directional RS232 for easy data transfer to computer
- Cal-due alarm – no more out-dated calibrations
- Auto-logging function for convenient continuous monitoring
- Limit alarm alerts when reading falls out of range
- Password protection for setup and calibration

EN16-156



Catalogue No	Description
EN16-156	Dissolved Oxygen / °C Bench Meter
EN16-157	Replacement galvanic dissolved oxygen electrode with ATC, 3m cable



EN16-158



## Dissolved Oxygen / BOD / °C Bench Meter

Touch screen simplicity and versatility make the Dissolved Oxygen (D.O.) Bench Meter the most advanced benchtop D.O. meter available and the easiest to use. Enter seed volume and other BOD data and it will take care of the rest.

- D.O. measurement includes five-day BOD testing, OUR, and SOUR. Simple D.O. measurement ranges from 0 to 60 mg/L and 0 to 600% saturation
- Advanced real-time on-screen graphing function provides useful indication for specific measurements
- Extensive setup screens enable you to customise meter to your needs, e.g. Barometer and Salinity Setting, BOD / OUR / SOUR Configuration, Alarm Limits and other functions
- Advanced USB, IRDA connectivity allows extensive host / device communication capabilities
- Ethernet / Internet-ready with RJ45 input for connection to LAN or Internet for quick online research and data sharing
- Secure log-in for up to ten users

### Specification

Measurement	Dissolved Oxygen	% Saturation of Oxygen	Temperature
Range	0 to 60mg/L or ppm	0 to 600%	0 to 45°C
Resolution	0.01mg/L or ppm	0.1%	0.1°C
Accuracy	±0.5% Full scale + 1 LSD		±0.1°C
Memory	100 Data Sets		
Output	USB, IrDA, RS232C		
Power Requirements	9V DC Adapter, 3.3mA		
Dimensions (wxdxh) cm	23.5 x 16.5 x 8.9		

Catalogue No	Description
<b>EN16-158</b>	Dissolved Oxygen / BOD / °C Bench Meter
<b>EN16-160</b>	Dissolved Oxygen / BOD electrode with self stirring mechanism, 1m cable

EN16-162



## Turbidity Meter

Hand held waterproof Turbidity meter

- Auto-ranging up to 1000 NTU
- Multi-point automatic calibration (up to 4 points)
- Self-diagnostic messages, quick stable responses and maintenance-free
- Infra-Red light source
- Supplied with calibration kit and carrying case

### Specification

Range	0 to 1000 NTU
Resolution	0.01, 0.1, 1 NTU (dependent on measurement & range)
Accuracy	±2% / ±3% of reading
Calibration	Push button at 0.02, 20.0, 100 & 800 NTU
Dimensions (WxLxH), mm	68 x 155 x 46
Weight, g	200

Catalogue No	Description
<b>EN16-162</b>	Turbidity Meter

## Turbidity Bench Meter

EN16-164



A highly accurate Turbidity meter especially designed for water quality measurements. Meets and exceeds the requirements of USEPA and Standard Methods. The instrument is based on a state-of-the-art optical system which guarantees accurate results, long term stability and minimizes stray light and colour interferences. It also compensates for variations in intensity of the LED, limiting the need for frequent calibration.

- Multi-Range through 0-4000 NTU
- 2, 3,4 or 5 point calibration with supplied standards
- Good Laboratory Practice (GLP) function for traceability of calibration conditions
- User friendly Graphical LCD display with guidance notes
- Log up to 200 records

Specification	
Range	0.00 to 9.99; 10.0 to 99.9; 100 to 4000 NTU
Resolution	0.01; 0.1; 1 NTU
Range Selection	Automatically
Accuracy	±2% of reading plus 0.02 NTU ±5% of reading above 1000 NTU
Repeatability	±1% of reading or 0.02 NTU whichever is greater
Stray Light	< 0.02 NTU
Light Detection	Silicon Photocell
Method	Nephelometric method (90°)
Measuring mode	Normal, Average, Continuous
Turbidity Standards	<0.1, 15, 100, 750 and 2000 NTU
Calibration	Two, three, four or five-point calibration
Light Source	Tungsten filament lamp
Lamp life	greater than 100,000 readings
Display	40 x 70mm graphic LCD (64x128 pixels) with backlight
Logging Memory	200 records
Serial Interface	USB
Power Supply	230 V / 50 Hz or 115 V / 60 Hz 20 W
Auto Shut-off	After 15 minutes of non-use

Catalogue No	Description
<b>EN16-164</b>	Bench Turbidity Meter supplied with 5 sample cuvettes and caps, calibration cuvetts, silicone oil, tissue for wiping cuvettes, power adapter and instruction manual.
<b>EN16-166</b>	Calibration set for turbidimeter
<b>EN16-168</b>	Solution for cleaning cuvettes
<b>EN16-170</b>	Silicon oil (15 mL)
<b>EN16-172</b>	Tissue for wiping cuvettes
<b>EN16-174</b>	Glass cuvettes
<b>EN16-176</b>	Caps for cuvettes
<b>EN16-178</b>	Windows® Compatible Software

Water Quality Testing

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Meteorology

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EN16-180



## Salinity Waterproof Pocket Meter

- Direct temperature readout
- Large screen dual-display
- Automatic Temperature Compensation (ATC)
- Waterproof to IP67 standard

Specification	EN16-180
Salinity range	To 10.00 ppt
Salinity resolution	0.10 ppt
Salinity accuracy	±1% Full scale
Temperature range	0 to 50°C
Temperature resolution	0.1°C
Temperature accuracy	±0.5°C
Power	4 x 1.5v A76 Micro Alkaline Batteries. Life: 50 Hours
Dimensions, cm	16.5 x 3.8

EN16-184



## Salinity Hand Held Meter

- Measures salinity in ppt and in %
- Temperature measurement with 0.1°C resolution
- Push button calibration with ±1% full scale accuracy
- Electrode with built-in ATC
- Protective rubber boot also acts as a stand
- Supplied with carrying case and standard solutions

Specification	EN16-184
Salinity range	1.0 to 50.00 ppt / 0.1 to 5.00%
Salinity resolution	0.1 ppt / 0.01%
Salinity accuracy	±1% Full scale
Temperature range	-10 to 100°C
Temperature resolution	0.1°C
Temperature accuracy	±0.5°C
Power	4 x 1.5v, AAA Batteries, Life: 100 Hours
Dimensions, cm	15.7 x 8.5 x 4.2

## Buffer Tablets

Ideal for when small amounts of buffer are required to quickly calibrate a pH meter in the laboratory or field. Distilled water is added to the tablet which dissolves to give a standard pH buffer solution.



Catalogue No	Description
EN16-200	pH buffer tablets, pH 4, Box of 50
EN16-202	pH buffer tablets, pH 7, Box of 50
EN16-204	pH buffer tablets, pH 10, Box of 50

## Buffer and Calibration Solutions for pH and Multi-Parameter Meters

Buffers and calibration solutions for pH, REDOX and Conductivity, packed in 500ml leak-proof bottles. Economical and popular for laboratory use.



Catalogue No	Description
EN16-206	pH buffer solution, pH 4, 500ml
EN16-208	pH buffer solution, pH 7, 500ml
EN16-212	pH buffer solution, pH 10, 500ml
EN16-214	Conductivity standard solution, 1413 µS, 500ml
EN16-216	Conductivity standard solution, 12.88 mS, 500ml
EN16-218	Conductivity standard solution, 111.8mS, 500ml
EN16-220	Redox standard solution, 258mV, 500ml
EN16-222	Redox standard solution, 458mV, 500ml

## pH / ORP / ION / Conductivity / TDS / Salinity / Resistivity / °C Bench Meter

EN16-224



Your all-in-one solution for multi-parameter research work in the lab. Reliable, accurate and intuitive with user-friendly functions. The meter comes with a multi-data screen that includes temperature, electrode status, calibration points, date and time along with your desired measurement parameter, measures pH, ORP, ION, Conductivity, TDS, Salinity, or Resistivity.

- Choose auto-calibration with preset values for quick easy calibration, or manual multi-point calibration for greater accuracy
- Easy standardization with auto-standardization feature – detect the exact cell constant value of your electrodes with the press of a button
- Up to 6-point calibration with auto-buffer recognition
- Includes high performance 4-cell Conductivity probe
- Quick, easy electrode diagnosis with the effective cell constants display
- Non-volatile memory holds up to 500 data points – time and date-stamped for GLP compliance
- Bi-directional RS232 for easy data transfer to computer
- Cal-due alarm – no more out-dated calibrations
- Auto-logging function for convenient continuous monitoring
- Limit alarm alerts when reading falls out of range
- Password protection for setup and calibration
- Automatic temperature control
- Mains power 110 / 240 V

Specification								
Parameter	pH	ORP	ION	Conductivity	TDS	Salinity	Resistivity	Temperature
Range	-2.000 to 20.000 pH	±2000.0 mV		0.050 $\mu$ S to 500.0 mS	0.050 ppm to 500 ppt (@TDS factor 1.00)	0.0 to 80.0 ppt	2.000 Ohm to 20.0 MOhm	0.0 to 100.0°C
Concentration			0.001 TO 19999 PPM ( $\pm$ 2000 mV)					
Rel. mV Range		±2000.0 mV						
Resolution	0.1 / 0.01 / 0.001 pH	0.1 mV	2 or 3 digits	0.01/0.1 $\mu$ S ; 0.001 / 0.01 / 0.1 mS	0.01 / 0.1ppm; 0.001 / 0.01 / 0.1 ppt	0.01 / 0.1 ppm; 0.001 / 0.01 / 0.1 ppt	0.01 / 0.1 Ohm; 0.001 / 0.1 KOhm; 0.01 MOhm	0.1°C
Accuracy	±0.002 pH + 1LSD	±0.2 mV	0.5% full scale (monovalent); 1% full scale (divalent)	±5% full scale	±1% full scale	±1% full scale	±1% full scale	±0.3°C
Calibration points	Up to 6 preset or 5 custom		2 to 8	Up to 5	Up to 5			
Buffer Sets	USA, NIST, DIN User 1, User 2, Custom							

Catalogue No	Description
EN16-224	pH / ORP / ION / Conductivity / TDS / Salinity / Resistivity Bench Meter
EN16-122	Replacement ion / pH electrode
EN16-226	4 Cell Conductivity / ATC Electrode, Graphite Sensor, Epoxy Body

Water Quality Testing

Hydrology & Groundwater

Soil / Sediment Sampling & Analysis

Meteorology

Toxic Gas Detection

Air / Dust Sampling & Monitoring

Air Quality Monitoring

Noise & Vibration Monitoring

Laboratory Analytical Equipment

Mobile Laboratories

Training

EN16-230



## Conductivity / TDS / Resistivity / °C Bench Meter

Featuring auto-standardization, auto-calibration and auto-ranging capabilities, the meter accepts 2-cell and 4-cell electrodes, allowing a broad range of measurement at up to  $\pm 1\%$  full scale accuracy. Meter comes with a multi data screen that shows Conductivity readings, temperature, electrode status, calibration points, date and time all at once.

- Choose auto-calibration with preset values for quick easy calibration, or manual multi-point calibration for greater accuracy
- Easy standardization with auto-standardization feature – detect the exact cell constant value of your electrodes with the press of a button
- Quick, easy electrode diagnosis with the effective cell constants display
- Replatinization in 5 minutes with the built-in replatinization circuit
- Non-volatile memory holds up to 500 data points – time and date-stamped for GLP compliance
- Bi-directional RS232 for easy data transfer to computer
- Cal-due alarm – no more out-dated calibrations
- Auto-logging function for convenient continuous monitoring
- Limit alarm alerts when reading falls out of range
- Password protection for setup and calibration
- Mains power 110 / 240 V

Specification					
Parameter	Conductivity	TDS	Salinity	Resistivity	Temperature
Range	0.050 $\mu$ S to 500.0 mS	0.050 ppm to 500 ppt (@ TDS factor 1.00)	0.0 to 80.0 ppt	2.000 Ohm to 20.0 MOhm	0.0 to 100.0 °C
Normalization					15.0 to 30.0 °C
Resolution	0.01 / 0.1 $\mu$ S; 0.001 / 0.01 / 0.1 mS	0.01 / 0.1 ppm; 0.001 / 0.01 / 0.1 ppt	0.01 / 0.1 ppm; 0.001 / 0.01 / 0.1 ppt	0.01 / 0.1 Ohm ; 0.001 / 0.1 kOhm; 0.01 MOhm	0.1 °C
Accuracy	$\pm 1\%$ full scale	$\pm 1\%$ full scale	$\pm 1\%$ full scale	$\pm 1\%$ full scale	$\pm 0.3\text{ }^{\circ}\text{C}$
Coefficient					Linear & pure; 0.000 to 10.000 %
Compensation					ATC / MTC
Calibration points	Up to 5	Up to 5			

Catalogue No	Description
<b>EN16-230</b>	Conductivity / TDS / Resistivity / °C Bench Meter
<b>EN16-226</b>	Replacement – 4-Cell Conductivity / ATC Electrode, Graphite Sensor, Epoxy-Body

Water Quality Testing

Hydrology & Groundwater

Soil / Sediment Sampling & Analysis

Meteorology

Toxic Gas Detection

Air/ Dust Sampling & Monitoring

Air Quality Monitoring

Noise & Vibration Monitoring

Laboratory Analytical Equipment

Mobile Laboratories

Training

## Conductivity / TDS / Salinity / Resistivity / °C Bench Meter

- Single and Multi point standardisation for Conductivity, Resistivity, TDS and Salinity measurements using two-cell and four-cell probes, with built-in replatinising circuit
- Advanced real-time on-screen graphing function provides useful indication for specific measurements
- Extensive setup screens enable you to customise meter to your needs, e.g. Cell Constant, Temperature Coefficient, TDS factor, Alarm Limits and other functions
- Windows® CE-driven, full-colour touch screen provides unmatched ease of use in operations and setups with user-friendly icons, user prompts and context specific 'help' screens
- Advanced USB, IRDA connectivity allows extensive host / device communication capabilities
- Ethernet / Internet-ready with RJ45 input for connection to LAN or Internet for quick online research and data sharing, with secure log-in for up to ten users.

EN16-232



Specification					
Measurement	Conductivity	TDS	Salinity	Resistivity	Temp
Range	0 to 200µS/cm 200 to 2000µS/cm 2 to 20mS/cm 20 to 500mS/cm	0 to 200ppm 200 to 2000ppm 2 to 20ppt 20 to 200 ppt	0 to 90ppt	0 to 19.99kΩ 20 to 199.9kΩ 200k_ to 1.999MΩ 2. to 100MΩ	-5 to 105°C
Resolution	0.001 / 0.01 / 0.1µS / cm 0.001 / 0.01 / 0.1mS/cm	0.001 / 0.01/0.1ppm 0.001 / 0.01 / 0.1ppt	0.1 / 0.01 / 0.001ppt	0.1 / 0.01 / 0.001kΩ 0.01 / 0.001MΩ	0.1°C
Accuracy	±0.5% Full Scale + 1 digit				±0.2°C
Calibration	4 points Auto & Manual				
Dimensions, cm, (wxdxh)	23.5 x 16.5 x 8.9				

Catalogue No	Description
<b>EN16-232</b>	Conductivity / TDS / Salinity / Resistivity / °C Bench Meter
<b>EN16-234</b>	Epoxy -body 4 ring conductivity electrode with ATC, Cell constant K=1.0, DIN connector, 1m cable

### Note:

Require General Laboratory Equipment?  
Please refer to our General Lab Catalogue.