



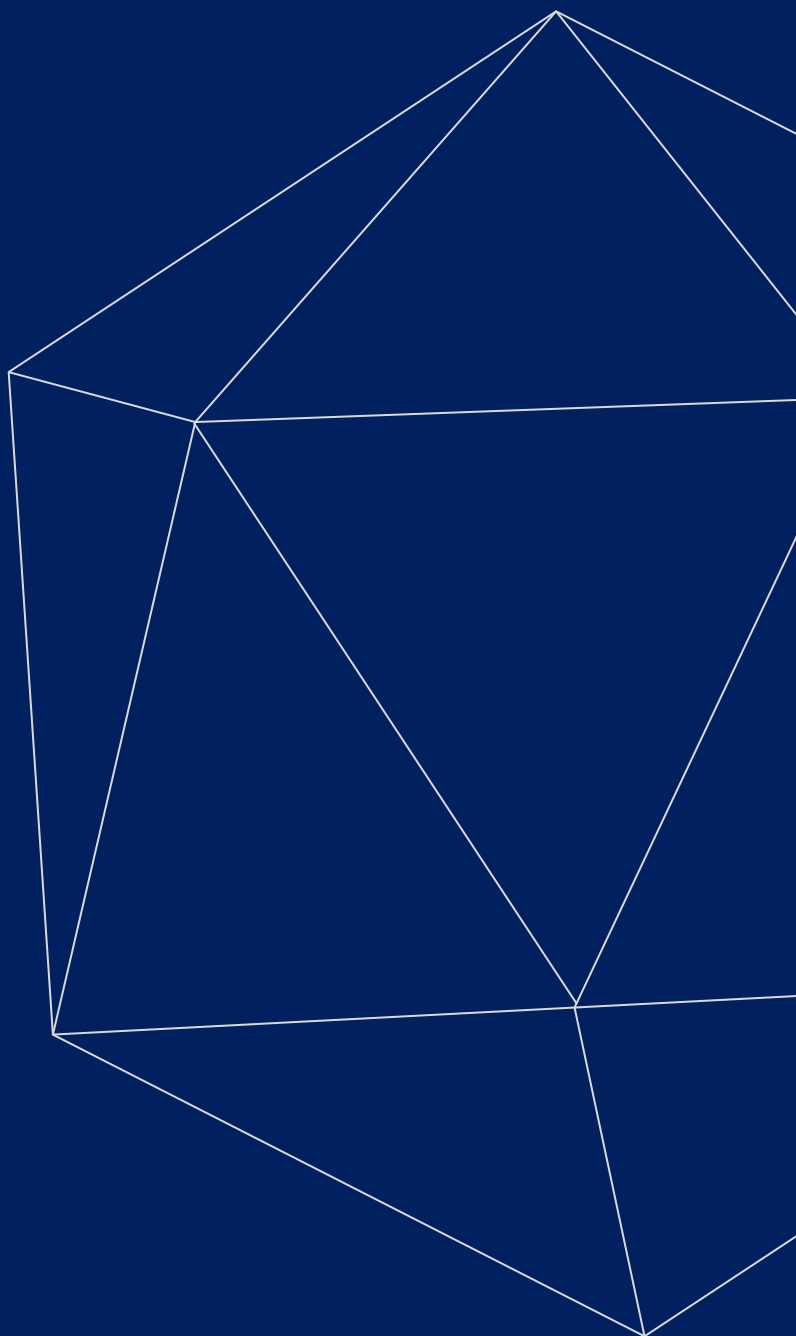
LABORATORY LINES

pH METERS



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Portable Calcium Meter Model YR01817-2



Portable Calcium Ion Meter

Professional portable calcium ion meter, suitable for outdoor applications, accuracy: 1% F.S.

✓ Features:

- Professional portable calcium ion meter is equipped with a backlit LCD display.
- ✓ 2 to 5 points calibration from low to high concentrations.
- ✓ Selectable 8 concentration calibration points, including the 0.001 to 10000.
- ✓ Selectable concentration units - ppm, mg/L and mol/L.
- ✓ Automatic electrode diagnosis shows the calibration points and slopes.
- ✓ Automatic temperature compensation ensures accurate readings over the entire range.
- ✓ Direct ion concentration readout simplifies the measurement process.
- ✓ Auto-Read function senses and locks the measurement endpoint.
- ✓ Calibration due alarm prompts user to calibrate the meter regularly.
- ✓ Auto-Power Off effectively conserves battery life.

- ✓ Setup menu allows setting the number of calibration points, stability criteria, temperature unit, date and time, etc.
- ✓ Reset function automatically resumes all settings back to the factory defaults.
- ✓ Expanded memory stores or recalls up to 500 data sets.
- ✓ USB communication interface for data transfer or connecting a power adapter to meter.

Accessories

- ✓ Ca-US calcium electrode
- ✓ TP-10K temperature probe
- ✓ Calcium standard solutions 100, 1000ppm
- ✓ Ionic strength adjuster
- ✓ Carrying case

Optional Accessories:

- ✓ Ca-US Calcium Electrode: Range: 0.02 to 4000ppm
- ✓ TP-10K Temperature Probe: For the temperature measurement
- ✓ Ion Standard Solutions: 480ml/bottle
- ✓ Ionic Strength Adjuster: 480ml/bottle



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Portable Calcium Meter Model YR01817-2

Technical Parameters

		YR01816	YR01817
pH	Range	-2.000-20.000pH	• —
	Resolution	0.001, 0.01, 0.1pH, selectable	• —
	Accuracy	±0.002pH	• —
	Calibration Points	1 to 5 points	• —
Ion	pH Buffer Options	USA, NIST, DIN, 2 custom buffers	• —
	Range	0.001-19999 (depending on the range of ISE)	• •
	Resolution	0.001, 0.01, 0.1, 1	• •
	Accuracy	±0.5% F.S. (monovalent), ±1% F.S. (divalent)	• •
	Measurement Units	ppm, mg/L, mol/L, mmol/L	• •
	Calibration Points	2 to 5 points	• •
ORP	Calibration Solutions	0.001, 0.01, 0.1, 1, 10, 100, 1000, 10000	• •
	mV Range	±1999.9mV	• •
	Relative mV Range	±1999.9mV	• —
	Resolution	0.1, 1mV, selectable	• •
Temperature	Accuracy	±0.2mV	• •
	Calibration Points	1 point	• —
	Range	0-105°C/32-221°F	• •
	Resolution	0.1°C/0.1°F	• •
Other Specifications	Accuracy	±0.5°C/±0.9°F	• •
	Offset Calibration	1 point, reading ±10°C	• •
	Temperature Compensation	0-100°C, manual or automatic	• •
	Stability Criteria	Low or high	• •
	Calibration Due Alarm	1 to 31 days or off	• •
	Slope/Offset Display	Yes	• •
	Hold Function	Manual or auto-endpoint	• •
	Auto-Off	10, 20 or 30 minutes after last key pressed	• •
	Memory	500 data sets	• •
	Communication Interface	USB	• •
	Connector	BNC, 3.5 mm jack socket	• •
	Display	Custom LCD (80×60 mm)	• •
	Power Requirements	3× 1.5V AA batteries or DC5V power adapter	• •
	Battery Life	Approximately 150 hours (Turn off the backlight)	• •
Dimensions	170(L)×85(W)×30(H) mm	• •	
Weight	300g	• •	



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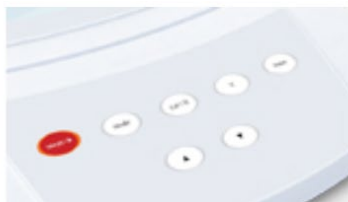
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Benchtop pH Meter

Model YR01823-1



YR01823-1 Benchtop pH Meter

Precision benchtop pH meter, 1 to 5 points calibration, Automatic Temperature Compensation, setup menu contains 9 options, accuracy: 0.002pH.

Features:

- ✓ Auto-Read function senses and locks the measurement endpoint
- ✓ Setup menu allows setting the pH buffer set, number of calibration points, resolution, stability criteria, temperature unit, date and time, etc.
- ✓ Reset function automatically resumes all settings back to the factory defaults
- ✓ Expanded memory stores or recalls up to 500 data sets
- ✓ USB communication interface for data transfer and timed interval readings.

{pH):

- ✓ 1 to 5 points calibration with automatic recognition for USA, NIST and DIN buffers
- ✓ Automatic electrode diagnosis shows the pH slope and offset
- ✓ Automatic temperature compensation ensures accurate readings over the entire range
- ✓ Calibration due alarm prompts user to calibrate the meter regularly

{ORP):

- ✓ 1 point offset calibration allows adjusting the displayed value to a known standard
- ✓ Relative and absolute millivolt modes ensure the reliable ORP



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Benchtop pH Meter

Model YR01823-1

Technical Parameters

pH	Range	-2.000-20.000pH
	Resolution	0.001, 0.01, 0.1pH, selectable
	Accuracy	±0.002pH
	Calibration Points	1 to 5 points
	pH Buffer Options	USA, NIST, DIN, 2 custom buffers
ORP	mV Range	±1999.9mV
	Relative mV Range	±1999.9mV
	Resolution	0.1, 1mV, selectable
	Accuracy	±0.2mV
	Calibration Points	1 point
Temperature	Range	0-105°C/32-221°F
	Resolution	0.1°C/0.1°F
	Accuracy	±0.5°C/±0.9°F
	Offset Calibration	1 point, reading ±10°C
Other Specifications	Temperature Compensation	0-100°C, manual or automatic
	Stability Criteria	Low or high
	Calibration Due Alarm	1 to 31 days or off
	Slope/Offset Display	Yes
	Hold Function	Manual or auto-endpoint
	Memory	500 data sets
	Communication Interface	USB
	Connector	BNC, 3.5 mm jack socket
	Display	Custom LCD (125×100 mm)
	Power Requirements	DC5V, using AC power adapter, 220V/50Hz
	Dimensions	210(L)×188(W)×60(H)mm
Weight	1.5kg	



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Portable Multiparameter Water Quality Meter

Model YR01820

General Features

- ✓ Automatic temperature compensation ensures accurate readings over the entire range
- ✓ Auto-Read function senses and locks the measurement endpoint
- ✓ Calibration due alarm prompts user to calibrate the meter regularly
- ✓ Auto-Power Off effectively conserves battery life
- ✓ Setup menu allows setting the number of calibration points, resolution, stability criteria, temperature unit, date and time, etc.
- ✓ Reset function automatically resumes all settings back to the factory defaults
- ✓ Expanded memory stores or recalls up to 500 data sets
- ✓ USB communication interface is easy to transfer data to PC
- ✓ Multi-mode power scheme (batteries, power adapter and USB port) ensures that using the meter smoothly



YR01820 Portable Multiparameter Water Quality Meter

High-performance multiparameter water quality meter contains the 8 measurement modes. The meter is suitable for measuring the pH, ORP, ion concentration, conductivity, TDS, salinity, resistivity and dissolved oxygen of the samples.

pH Mode:

- ✓ Portable multiparameter water quality meter is equipped with a large backlit LCD display.
- ✓ 1 to 5 points push-button calibration with auto-buffer recognition.
- ✓ Selectable pH buffer group (USA/NIST/DIN) or using the custom calibration solutions.
- ✓ Automatic electrode diagnosis with pH slope and offset display.

ORP Mode:

- ✓ 1 point offset calibration allows adjusting the displayed value to a known standard.
- ✓ Relative and absolute millivolt modes provide the reliable ORP measurements.

Ion Mode:

- ✓ 2 to 5 points calibration, containing the 8 concentration points can be selected.
- ✓ Automatically recognizes the ion selective electrode, does not need to specify type of ion.
- ✓ Direct ion concentration readout simplifies the measurement process.
- ✓ Selectable concentration units include the ppm, mg/L and mol/L.

Conductivity/TDS/Salinity/Resistivity Modes:

- ✓ 1 to 5 points calibration, automatically recognizes the conductivity standard solutions.
- ✓ Selectable cell constant (0.1/1/10), reference temperature (20°C/25°C), TDS factor, linear and pure water compensations, seawater and practical salinity measurement modes.

Dissolved Oxygen Mode:

- ✓ 1 or 2 points calibration using the air-saturated water or zero oxygen solution.
- ✓ Salinity and barometric pressure compensations ensure the reliable DO measurements.



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MULTIPARAMETER

		YR01820	YR01820-2	YR01820-3	YR01820-4	YR01820-5
pH	Range	-2.000-20.000pH	•	•	•	•
	Resolution	0.001, 0.01, 0.1pH, selectable	•	•	•	•
	Accuracy	±0.002pH	•	•	•	•
	Calibration Points	1 to 5 points	•	•	•	•
	pH Buffer Options	USA, NIST, DIN, 2 custom buffers	•	•	•	•
ORP	Range	±1999.9mV	•	•	•	•
	Resolution	0.1, 1mV, selectable	•	•	•	•
	Accuracy	±0.2mV	•	•	•	•
	Calibration Points	1 point	•	—	•	•
Ion	Range	0.001-19999 (depending on the range of ISE)	•	—	—	—
	Resolution	0.001, 0.01, 0.1, 1	•	—	—	—
	Accuracy	±0.5% F.S. (monovalent), ±1% F.S. (divalent)	•	—	—	—
	Measurement Units	ppm, mg/L, mol/L, mmol/L	•	—	—	—
	Calibration Points	2 to 5 points (0.001, 0.01, 0.1, 1, 10, 100, 1000, 10000)	•	—	—	—
Conductivity	Range	0.01-20.00, 200.0, 2000µS/cm, 20.00, 200.0mS/cm	•	•	•	•
	Resolution	0.001, 0.01, 0.1, 1	•	•	•	•
	Accuracy	±0.5% F.S.	•	•	•	•
	Calibration Points	1 to 5 points	•	•	•	•
	Calibration Solutions	10µS/cm, 84µS/cm, 1413µS/cm, 12.88mS/cm, 111.8mS/cm	•	•	•	•
	Temperature Coefficient	Linear (0.0-10.0%/°C), pure water	•	•	•	•
	Reference Temperature	20/25°C	•	•	•	•
	Cell Constant	K=0.1, 1, 10 or custom	•	•	•	•
TDS	Range	0-10.00, 100.0, 1000ppm, 10.00, 200.0ppt	•	•	•	•
	Resolution	0.01, 0.1, 1	•	•	•	•
	Accuracy	±1% F.S.	•	•	•	•
	TDS Factor	0.1-1.0 (default 0.5)	•	•	•	•
Salinity	Range	0.00-42.00psu, 0.00-80.00ppt	•	—	•	•
	Resolution	0.01	•	—	•	•
	Accuracy	±1% F.S.	•	—	•	•
Resistivity	Range	0.00-20.00MΩ	•	—	•	•
	Resolution	0.01	•	—	•	•
	Accuracy	±1% F.S.	•	—	•	•
DO	Range	0.00-20.00mg/L, 0.0-200.0% saturation	•	—	•	•
	Resolution	0.01mg/L, 0.1%	•	—	•	•
	Accuracy	±0.2mg/L, ±2.0%	•	—	•	•
	Calibration Points	1 or 2 points	•	—	•	•
	Barometric Pressure Correction	60.0-112.5kPa/450-850mmHg, manual	•	—	—	•
General Spec.	Salinity Correction	0.0-50.0g/L, manual	•	—	—	•
	Temperature Compensation	0-100°C/32-212°F, manual or automatic	•	•	•	•
	Memory	500 data sets, USB communication interface	•	•	•	•
	Power Requirements	3 x 1.5V AA batteries or DC5V power adapter	•	•	•	•
	Dimensions and Weight	170 (L) x 85 (W) x 30 (H) mm, 300g	•	•	•	•



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Portable Multiparameter Water Quality Meter

Model YR01820



Accessories

- ✓ E201-BNC pH electrode
- ✓ CON-1 conductivity electrode
- ✓ TP-10K temperature probe
- ✓ pH4.01/7.00/10.01 buffer sachets
- ✓ Conductivity standards 84 μ S/cm, 1413 μ S/cm, 12.88mS/cm
- ✓ Carrying case

Measurement Parameters

- ✓ YR01820: pH, mV, relative mV, ion concentration, conductivity, TDS, salinity, resistivity, DO, temperature
- ✓ YR01820-2: pH, mV, conductivity, TDS, temperature
- ✓ YR01820-3: pH, mV, relative mV, conductivity, TDS, salinity, resistivity, temperature
- ✓ YR01820-4: pH, mV, relative mV, DO, temperature
- ✓ YR01820-5: Conductivity, TDS, salinity, resistivity, DO, temperature

Optional Accessoires:

- ✓ P11 pH Electrode For the general applications
- ✓ P12 pH Electrode For the sample in the test tube
- ✓ P13 pH Electrode For the micro-volume samples
- ✓ P15 pH Electrode For the low conductivity samples
- ✓ P16 pH Electrode For the Tris buffers
- ✓ P18 pH Electrode For the slurries and soils
- ✓ P19 pH Electrode For the semisolids
- ✓ P21 pH Electrode For the colloids
- ✓ P22 pH Electrode For the high temperature samples
- ✓ CON-0.1 Conductivity Electrode For the pure water
- ✓ CON-1 Conductivity Electrode For the general applications
- ✓ CON-10 Conductivity Electrode For the high conductivity liquids
- ✓ TP-10K Temperature Probe Special-purpose temperature sensor
- ✓ pH Buffer Solutions 480mL/bottle
- ✓ Conductivity Standard Solutions 480mL/bottle



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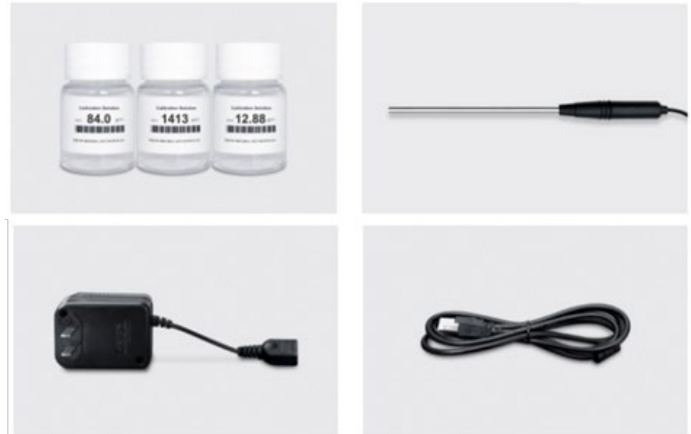
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Benchtop Conductivity/TDS Meter

Model YR01830



Measurement Parameters

YR01830: Conductivity, TDS, temperature

Features:

- ✓ 1 to 3 points calibration with automatic recognition for conductivity standards
- ✓ Selectable cell constant, temperature coefficient and TDS conversion factor
- ✓ Automatic temperature compensation ensures accurate readings over the entire range
- ✓ Auto-Read function senses and locks the measurement endpoint
- ✓ Setup menu allows setting the number of calibration points, temperature unit, etc.
- ✓ Reset function automatically resumes all settings back to the factory defaults

Applications:

- ✓ Water quality analysis
- ✓ Research and educations
- ✓ Environmental monitoring and other industrial applications

Standard Accessories

- ✓ CON-1 conductivity electrode
- ✓ TP-10K temperature probe
- ✓ Conductivity standards 84 μ S/cm, 1413 μ S/cm, 12.88mS/cm
- ✓ DC9V power adapter

Optional Accessories

- ✓ CON-0.1: Suitable for measuring the low conductivity liquids (<10 μ S/cm)
- ✓ CON-1 : Suitable for general purpose applications
- ✓ CON-10 : Suitable for measuring the high conductivity liquids (>20mS/cm)



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**Benchtop
Conductivity/TDS Meter
Model YR01830**

Technical Parameters

	Model	
Conductivity	Range	0.01–20.00, 200.0, 2000µS/cm, 20.00, 200.0mS/cm
	Resolution	0.001, 0.01, 0.1, 1
	Accuracy	±1% F.S.
	Calibration Points	1 to 3 points
	Calibration Solutions	10µS/cm, 84µS/cm, 1413µS/cm, 12.88mS/cm, 111.8mS/cm
TDS	Range	0–10.00, 100.0, 1000ppm, 10.00, 200.0ppt
	Resolution	0.01, 0.1, 1
	Accuracy	±1% F.S.
	TDS Factor	0.1–1.0 (default 0.5)
Salinity	Range	—
	Resolution	—
	Accuracy	—
Resistivity	Range	—
	Resolution	—
	Accuracy	—
Temperature	Range	0–105°C/32–221°F
	Resolution	0.1°C/0.1°F
	Accuracy	±1°C/±1.8°F
	Offset Calibration	1 point, reading ±10°C
Other Specifications	Temperature Compensation	0–100°C, manual or automatic
	Temperature Coefficient	Linear (0.0–10.0%/°C)
	Reference Temperature	25°C
	Cell Constant	K=0.1, 1, 10 or custom
	Stability Criteria	—
	Calibration Due Alarm	—
	Calibration Factor Display	—
	Hold Function	Manual or auto-endpoint
	Memory	—
	Communication Interface	—
	Connector	6-pin nemi-DIN, 3.5mm jack socket
	Display	Custom LCD (120×60mm)
	Power Requirements	DC9V power adapter
Dimensions	210(L)×205(W)×75(H)mm	
Weight	1.5kg	



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Turbidity Meter Model YR01841



It is very important to measure the turbidity of domestic water supplies, as these supplies often undergo some type of water treatment which can be affected by turbidity. For example, during the rainy season when mud and silt are washed into rivers and streams, high turbidity can quickly block filters and stop them from working effectively. High turbidity will also fill tanks and pipes with mud and silt and can damage valves and taps. Where chlorination of water is practiced, even quite low turbidity will prevent the chlorine killing the germs in the water efficiently.

Some treatment systems, such as sediments, coagulators and gravel prefilters are designed to remove turbidity. It is important for operators of both large and small treatment systems to know how well these systems are working. Measuring the turbidity of the water before and after each part of the system can tell the operator where maintenance or cleaning is needed.

Turbidity can be measured using either an electronic turbidity meter or a turbidity tube. Both methods have advantages and disadvantages, as shown below. Turbidity is usually measured in nephelometric turbidity units (NTU) or Jackson turbidity units (JTLJ), depending on the method used for measurement. The two units are roughly equal.

YR01841 Turbidity Meter

Meter, turbidity standards (0.02, 200, 500, 1000 NTU), sample vials, lint-free cloth and carrying case.

Features:

- ✓ High-performance portable turbidity meter meets the design criteria in ISO 7027

- ✓ 2 to 5 points calibration using the Formazin Standards
- ✓ Selectable 4 turbidity units, including the NTU, FNU, EBC and ASBC
- ✓ Single measurement mode automatically senses and locks a stable reading
- ✓ Continuous measurement mode can be used for indexing or matching the sample vials
- ✓ Auto-Power Off effectively conserves battery life
- ✓ Setup menu allows setting the number of calibration points, resolution, date and time, etc.
- ✓ Reset function automatically resumes all settings back to the factory defaults
- ✓ Expanded memory stores or recalls up to 100 data sets
- ✓ USB communication interface for data transfer or connecting a power adapter to meter

Applications:

- ✓ Drinking water and swimming pool
- ✓ Environmental monitoring and other applications

Accessories

- ✓ Turbidity standards 0.02, 200, 500, 1000 NTU
- ✓ Glass sample vials
- ✓ Lint-free cloth
- ✓ Carrying case

Optional Accessories

- ✓ Sample Vial: Glass body, 60×25mm
- ✓ Turbidity Standard Solutions: 0.02, 200, 500, 1000 NTU



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Turbidity Meter

Model YR01841



Model	YR01841	
Turbidity	Principle	ISO 7027 nephelometric method (90°)
	Range	0-1100 NTU, 0-275 EBC, 0-9999 ASBC
	Resolution	0.01 (0-99 NTU), 0.1 (100-999 NTU), 1 (1000-1100 NTU)
	Accuracy	±2% of reading (0-500 NTU), ±3% of reading (501-1100 NTU)
	Calibration Points	2 to 5 points
	Calibration Standards	0.02, 10, 200, 500, 1000 NTU
Other Specifications	Light Source	Infrared-emitting diode (850nm wavelength)
	Detector	Silicon photodiode
	Stray Light	<0.02 NTU
	Sample Vial	60(H)×25(Dia)mm
	Sample Volume	30mL
	Memory	100 data sets
	Communication Interface	USB
	Operating Temperature	0-50°C
	Display	Custom LCD (60×40mm)
	Power Requirements	3× 1.5V AA batteries or DC5V power adapter
	Dimensions	180 (L)×85 (W)×70 (H)mm
	Weight	300g



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Turbidity Meter

Model YR01842

It is very important to measure the turbidity of domestic water supplies, as these supplies often undergo some type of water treatment which can be affected by turbidity. For example, during the rainy season when mud and silt are washed into rivers and streams, high turbidity can quickly block filters and stop them from working effectively. High turbidity will also fill tanks and pipes with mud and silt and can damage valves and taps. Where chlorination of water is practiced, even quite low turbidity will prevent the chlorine killing the germs in the water efficiently.

Some treatment systems, such as sediments, coagulators and gravel prefilters are designed to remove turbidity. It is important for operators of both large and small treatment systems to know how well these systems are working. Measuring the turbidity of the water before and after each part of the system can tell the operator where maintenance or cleaning is needed.

Turbidity can be measured using either an electronic turbidity meter or a turbidity tube. Both methods have advantages and disadvantages, as shown below. Turbidity is usually measured in nephelometric turbidity units (NTU) or Jackson turbidity units (JTU), depending on the method used for measurement. The two units are roughly equal.

YR01842 Turbidity Meter

Benchtop turbidity meter, 2 to 7 points calibration, selectable four turbidity units.

Features:

- ✓ Standard benchtop turbidity meter is equipped with a 4.5 inches TFT display.
- ✓ 2 to 7 points push-button calibration using the Formazin Standards.
- ✓ Selectable 4 turbidity units, including the NTU, FNU, EBC and ASBC.
- ✓ TSS conversion factor ensures the accurate measurement of the total suspended solids.
- ✓ Continuous measurement mode can be used for indexing and matching the sample vials.
- ✓ Hold function freezes current reading for easy viewing and recording.
- ✓ Password protection prevents the unauthorized calibration and settings.
- ✓ Setup menu allows setting the 9 parameters, including the date and time, measurement mode, resolution, backlight brightness, etc.
- ✓ Expanded memory stores and recalls up to 200 data sets.
- ✓ Stored readings can be transferred into the computer by USB communication interface.
- ✓ Reset feature automatically resumes all settings back to factory default options.

Applications:

- ✓ Industrial wastewater plants
- ✓ Municipal water and other industrial applications

Accessories

- ✓ Turbidity standards 0.02, 200, 500, 1000 NTU
- ✓ Glass sample vials
- ✓ Lint-free cloth
- ✓ DC12V power adapter

Optional Accessories

- ✓ Sample Vial: Glass body, 60×25mm
- ✓ Turbidity Standard Solutions: 0.02, 200, 500, 1000 NTU



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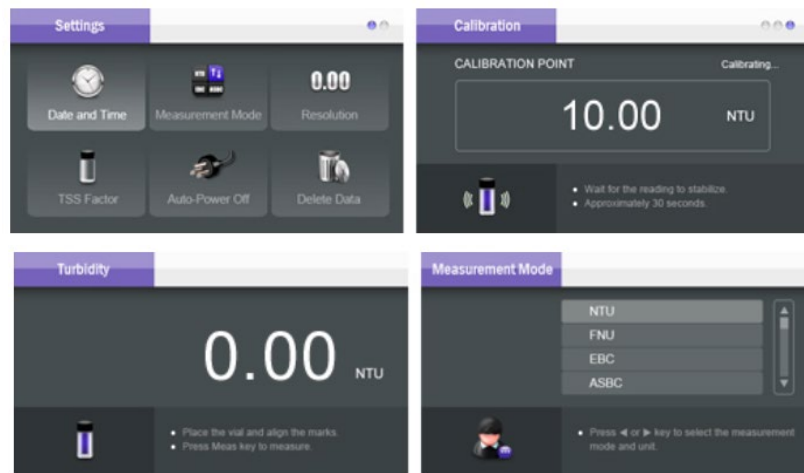


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Turbidity Meter

Model YR01842



	Model	YR01842
Turbidity	Range	0-2000 NTU, 0-500 EBC, 0-9999 ASBC
	Resolution	0.01 (0-99NTU), 0.1 (100-999NTU), 1 (1000-2000 NTU)
	Accuracy	±2% of reading (0-500 NTU), ±3% of reading (501-2000NTU)
	Calibration Points	2 to 7 points
	Calibration Standards	0.02, 10, 200, 500, 1000, 1500, 2000 NTU
TSS	Range	Depending on the TSS conversion factor
	Accuracy	3% of reading
Other Specifications	Light Source	Infrared-emitting diode (850nm wavelength)
	Detector	Silicon photodiode
	Stray Light	<0.02 NTU
	Sample Vial	60 (H)×25 (Dia) mm
	Memory	200 data sets
	Communication Interface	USB
	Operating Temperature	0-50°C
	Display	4.5 inches TFT LCD
	Power Requirements	DC12V, using AC power adapter, 220V/50Hz
	Dimensions	250 (L)×177 (W)×96 (H) mm
Weight	1.2kg	



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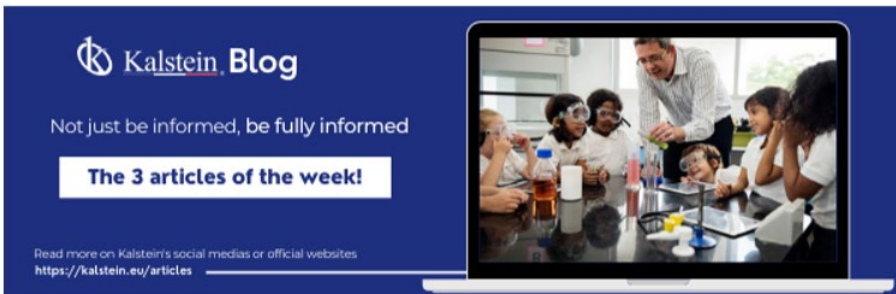
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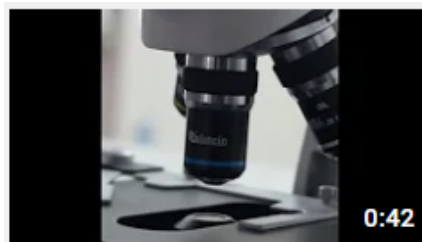
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