



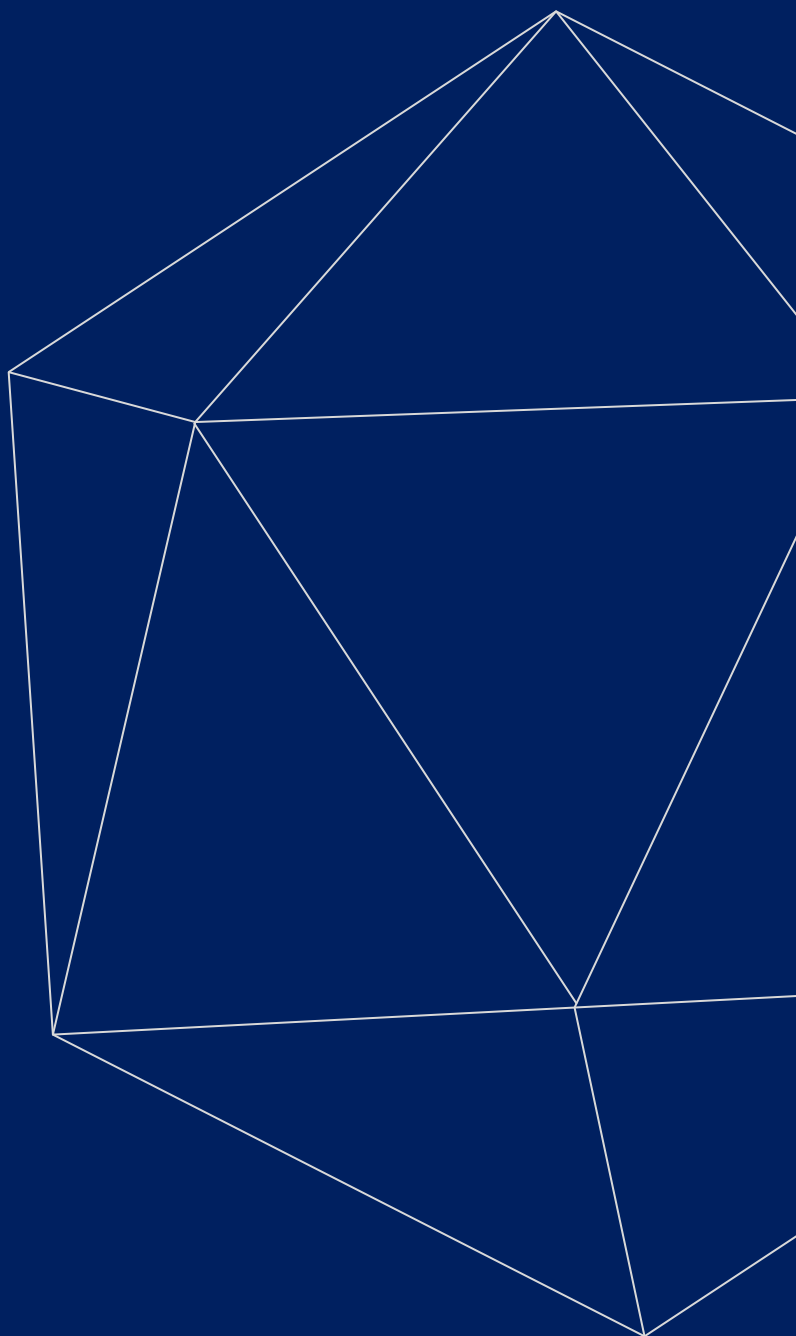
LABORATORY LINES

pH METERS



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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	•	•	•	—	•
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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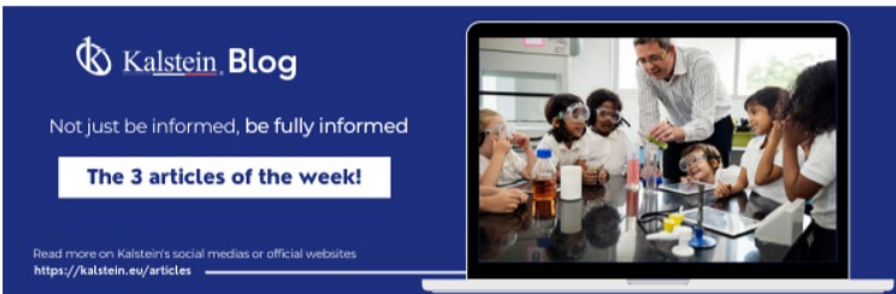
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