

pH, CONDUCTIVITY, ORP, TURBIDITY,
DISSOLVED O₂, Residual Cl₂, NH₃
PORTABLE, CONTINUOUS, LABORATORY CONFIGURATIONS



Model 112



Turb 1000



CON 1000



Model Cl₂ 1000



DataWorks™ Software



Model pH 1000



Model 202



Model 610 Water Quality Analyzer



DL 1000

PORTABLE ANALYZERS

pH, ORP, Conductivity, Turbidity, Dissolved O₂, Cl₂, NH₃, Ion Selective Electrodes

Portable pH - Model pH100

Easily track and review large volumes of pH, mV and temperature data!

The pH 100 meter with RS-232 output downloads readings to your computer or printer. Free software organizes data into a format easy to import into popular spreadsheet programs. Advanced setup mode lets you display previous pH, mV, and temperature calibration data; set pH resolution (0.1 or 0.01 pH); select Ready indicator and Auto-Off function; and more! Use the electrode bracket to position electrode for one-handed operation. Electrode cable holder conveniently stores electrode cable behind the meter. The pH 100 portable meter is supported by a full selection of calibration buffers and accessories.

Portable Conductivity- Model CON 100

The CON 100 and 200 meters let you customize operating parameters for your exact application! These meters offer high accuracy at an affordable price. Measure conductivity with the CON 100; measure both conductivity and TDS with the CON 200. The CON 200 also has RS-232/printer capabilities to output data to a computer or printer—ideal for GLP or HACCP data recording needs. The advanced setup mode lets you check previous calibration data, activate Ready Indicator and Auto-off functions, select cell constant, select a conductivity-to-TDS conversion factor (CON 200 only), and more! Probe cable wraps behind the meter for easy one-handed operation.

Portable Dissolved O₂ - Model DO100

The DO 100 meter reads dissolved oxygen, with no warm-up time required! The DO 100 meter automatically calculates the offset values and insures high accuracy with independent 100%, zero, and offset adjustment capabilities. The DO 100 meter includes an easy-to-service dissolved oxygen/temperature probe, electrolyte solution, and batteries. It features a Hold function, Ready indicator, and automatic shutoff after 30 minutes of non-use. The splash-resistant membrane keypad helps protect meter components from occasional spills.

Portable Turbidity - Model T100

Designed for portability and durability the waterproof T-100 turbidity meter is ideal for monitoring turbidity in chemical, food and industrial applications. The microprocessor-based T-100 turbidity meter uses an infrared LED light source and delivers unprecedented repeatability and accuracy while offering resolution as low as 0.01 NTU. This lightweight meter is a valuable analytical tool for field-testing and quality control.

Water Quality Meter- Model 104

Temperature, Conductivity, Turbidity- Three parameter meter with 7,000 point datalogging (manual or automatic), programmable analog output, use as field portable or run continuously off charger. Minimum 2 point calibration; multipoint calibration available for turbidity. Weight 1.5 #

Water Quality Meter - Model 104+

Temperature, Conductivity, Salinity/Turbidity, pH, Dissolved O₂ - Six parameter meter, easy to use datalogging software, plotting, printing, files saved directly in Excel format; 5^{1/2} digit LCD with backlighting

pH100

- pH -2 to 16
- mV- +/- 2,000
- T- 0-100°C
- 5 point calibration
- 4 x 1.5 V batteries
- 50 hrs continuous
- 16 data sets in memory
- Ergonomic design
- Weight 1 #



CON 100

- 0-19.99 mS/0.01
- 0-199.9 mS/0.1
- 5 point calibration
- 4 x 1.5 V batteries
- 60 hrs continuous
- 16 data sets in memory
- Weight 1 #



DO 100

- 0.00-20 mg/l (ppm)
- 0-200% saturation
- 0-50°C
- 4 x 1.5 V batteries
- >50 hrs continuous
- Dual display
- Weight 1 #



T100

- 0-1,000 NTU
- 4 x 1.5 V batteries
- ±0.01 NTU or ±1% of measurement, whichever is greater
- Weight 7 oz



104

- T- 20-60°C
- Conductivity- 0-255 mS/0.1
- Turbidity- 0-4,000 NTU/0.1
- Rechargeable. NiMH battery
- >50 hour cont.



104+ plus

- DO- 0.00-20 mg/l
- pH- 0-15
- 6 parameters

CONTINUOUS ANALYERS/Controllers

Measure and/or control pH, ORP, conductivity, T, dissolved O₂; Applications: clean Water Act compliance, effluent monitoring, municipal water treatment, analysis of water for process input, monitoring cooling water

pH 1000 Controller for pH, ORP, T, dissolved O₂ in water

Choose the pH 1000 controller, with three control types, for more complicated applications! On/off control shuts your pump or valve on or off when your process passes its set points. Two separately programmable relays are ideal for acid feed/base feed applications. The pH 1000 also offers proportional pulse length or proportional pulse frequency control. Use proportional control to gradually increase or decrease your pump's or valve's response, depending on the amount by which your process has passed the set point. Both controllers are also selectable for pH or ORP control; normally activated or unactivated relays; manual or automatic temperature compensation, and much more! Convenient 1/4 DIN size fits into standard panel cutouts; mounting hardware included for fast panel installation. The IP54 rated front panel keypad is weather resistant. Controllers are supported by a full selection of calibration buffers and industrial electrodes.

CON 1000- Conductivity Controller

These 1000 Series controllers provide high 0.5% full-scale accuracy for rapid on/off control of your process. Models that read conductivity or resistivity are available. Each unit is selectable for normally activated or unactivated relays; manual or automatic temperature compensation etc. View control set points and other set-up information with a button press. The controller's convenient 1/4 DIN size fits into standard panel cutouts; it includes mounting hardware for fast panel installation. The IP54 rated front panel keypad is weather resistant.

Cl₂ 1000 - Residual Chlorine Controller

This analyzer determines the quantity of residual chlorine in water via electrochemistry where the chlorine is reduced to Cl⁻. This produces a signal that is proportional to the concentration of chlorine. There is a programmable delay action from 0-99.9 sec. alarm at 20.00 ppm (H) or 10.00 ppm (L). Response time is 5 sec to 90%.

Turb 1000 -Turbidity Controller

Turbidity is measured using an 850 nm infrared laser diode and detector in a scattered mode (transmission & scattered light). The ratio of latter over the former is proportional to the turbidity. The sensor provides a signal consistent with the scattered detector output. The output ensures a highly accurate, yet narrow sensitivity range. The range of ratio turbidity readings is 0 NTU to 1,000 NTU. The meter provides a convenient & easy 2 point calibration method, linearization of the turbidity signal, 7,000 point data logging capability and a user programmable output for the 4-20 mA. The sensor can be mounted directly on the tank or in the process. The seal is via an o-ring.

pH 1000

- pH- 0.00 to 14.00/0.01
- +/- 1,000 mV/1.0
- -9.9 to 125°C/0.1
- 2 SPDT relays @ 120 V, 6A
- 4-20 mA output
- Convenient 1/4 DIN size
- Push button two point cal
- On/Off, proportional pulse or proportional frequency
- Two level password protection



pH1000

DO 1000

- 0-20.00 mg/L (ppm)
- Read in mg/L, ppm or % saturation
- 0-50°C- Dual display
- Convenient 1/4 DIN size
- 2 SPDT relays @ 120 V, 6A
- On/Off, proportional pulse or proportional frequency
- Two level password



O₂1000

Con 1000

- 0.000-1.999 uS to
- 0.0 to 199.9 mS
- 2 SPDT relays @ 120 V, 6A
- 0-20 or 4-20 mA output
- Control on/off
- Convenient 1/4 DIN size
- Two level password protection



CON 1000

Cl₂ 1000

- 0-20.00 ppm Cl₂
- -2°C-52°C
- Polarization -200 mV
- Temp. Coeff. 0/4.0 %/°C
- 0-20 or 4-20 mA output
- Proportional to pulse frequency



RCI,1000

Turb 1000

- 0-1,000.0 NTU
- Response time 90% < 3 sec
- 1 SPDT relay @ 120 V, 6A or 24 VDC
- 0-20 or 4-20 mA output
- 5^{1/2} digit LCD readout with backlight



Turb 1000

Electrochemical Sensors

Process & Laboratory Electrodes for pH, conductivity, DO, ISE's

610 Water Quality Analyzer

The Model 610 is a reliable, flexible and versatile analyzer based on ion selective electrodes such as: NH_3 , Cl^- , S^{2-} , F^- , CN^- , CO_3^{2-} , SO_3^{2-} ... The ion selective electrodes are potentiometric (reversible) devices that respond to a change increase as the ion is increased/de-creased. The concentration is calculated via: Nernst Equation: $E = E_0 + [RT/nF] \log [\text{concentration}]$ where E is the potential, E_0 is a mixture of several potentials in the system, R is the gas constant, T is the absolute temperature OK, and F is the faraday constant. *This product is available in a NEMA 4 wall mount configuration only.*

VOC Spill Detectors 1000-CG, 202 IR, 112 PID

There are three types of spill detectors 1000-CG (inexpensive), 202-IR and 112-PID (very sensitive). The former two measure LEL levels while the latter PID detects ppm levels of VOC in the headspace above the water or sewer effluent. A programmable alarm level can be used to divert the water to a holding tank instead of a pond or river, thus preventing an accidental discharge of VOCs.

pH and industrial pH & ORP electrodes

A full range of laboratory pH and ORP electrodes are available. In addition, industrial pH and ORP electrodes include in-line, submersible, semidomed bulb, self cleaning flat, teflon junction electrodes...

Conductivity

Install these rugged industrial probes in a pipeline or submerge in a tank. Choose from 4 different cell constants for midrange, high, or low conductivity. chose a cell constant of 0.01 for resistivity measurements. Standard conductivity probes for portable or lab have stainless steel or epoxy bodies and three cell constants.

DO

DO probes are available with cables from 10-100 feet

ISE

A full range of ISEs is available for all pH/ISE meters.



610 WQA



Industrial Conductivity



1000/202/212



Industrial pH



Portable Printer



Lab pH Probe



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