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Анализаторы pH Global Water

Технические характеристики





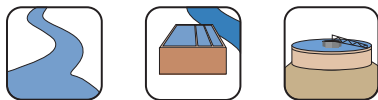
pH3110/3210 pH/mV Meter Kits

User-Friendly Waterproof Kits for Measuring pH or mV and Temperature

Features

- Rugged, waterproof and field-friendly
- Kit includes everything in a convenient carry case
- Built-in datalogger (pH 3210)

Applications



Ideal for environmental monitoring and water and wastewater applications.

Specifications

	3110	3210
Range	pH: -2.000 to 19.999 mV: ±2000.0 mV Temp: 23 to 221 °F (-5.0 to 105.0 °C)	pH: -2.000 to 19.999 mV: ±2500.0 mV Temp: 23 to 221 °F (-5.0 to 105.0 °C)
Resolution	All values +1 digit	
Accuracy	pH: ±0.005 mV: ±0.3 Temp: +0.2 °F (+0.1 °C)	
Calibration	1, 2, or 3 point	1, 2, 3, 4, or 5 point
Display	7-Segment LCD, customized	LCD backlit graphic
Memory	N/A	200 Manual Datasets
Battery Life	Up to 2500 hours	Up to 1000 hours w/o backlit, 150 hours w/backlight
Power	Four 1.5V AA batteries or four 1.2 V NiMH	
Sensor/Temp input	DIN/4mm Banana	
Weight	10.5 oz (300g)	
Dimensions	7x3.15x2.17in (180x80x55mm)	

Description

The user-friendly pH3110-3210 pH/mV Meter Kits are optimized for field use, but are accurate enough for the lab. The meters meet IP66/67 standards, so you don't need to worry about using it in the rain or accidentally dropping it into water. They have a sealed silicone keypad that offers real button response, yet allows for easy cleaning. The units feature simultaneous display of pH or mV with temperature, choice of automatic or manual temperature compensation, and multipoint calibration with automatic buffer recognition at eight buffer values. The pH3110 and pH3210 meters are ideal for environmental, water, and wastewater monitoring.

Flexible Models

The pH3110 is a great value for a robust and waterproof battery-operated pH/mV meter. It features an intuitive 6-key sili-

cone keypad and a simplified calibration method with automatic buffer recognition and display for standard buffers. The meter's AutoRead function ensures stable and reproducible results. Typical applications for the pH 3110 include simple pH measurements or use in high schools and universities.

The pH 3210 includes a built-in data-logger, real-time clock, GLP-supporting functions and backlit display. It can be configured with the MultiCal® automatic calibration for buffer recognition, and automatic temperature compensation. It has a continuous measurement control (CMC) function that alerts you when your meter is reading outside of the calibrated range. Its large memory allows you to manually store 200 datasets.

Ordering & Options

pH/mV Meter Kits

Order No.	Description	Electrode
pH3110	Meter Kit	SenTix® 41
pH3210	Meter Kit with Datalogger	SenTix® 41

Replacement Electrodes

Order No.	Description
SenTix41	Plastic Body Electrode with Temperature Sensor
SenTix21	Plastic Body Electrode without Temperature Sensor

pH Solution

Order No.	Description
478554	Rainbow Buffer Pack: Includes one 500 ml bottle each of pH 4, 7, and 10

You may also like . . .

WQ201 pH Sensor

Rugged, reliable, and accurate pH sensor with 4-20 mA output.

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695pH Industrial pH Transmitter

Transmitter with display and 4-20 mA output for pH measurements.

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6309POT pH/ORP Analyzer and Controller

Instrument for Measuring and Controlling pH, ORP, and Temperature

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"Water is the most basic of all resources. Civilizations grew or withered depending on its availability."

– Dr. Nathan W. Snyder

pH 1970i Portable pH Meter

Portable pH Meter with Rubberized Housing

Description

The accurate and field-friendly pH 1970i Portable pH Meter features a shock absorbing housing that is not only waterproof (IP67) but will actually float. In addition, the meter's convenient carrying handle doubles as a meter stand for benchtop use. The pH 1970i displays pH/temperature or mV/temperature simultaneously, which makes taking your

pH readings easy. With its GLP memory functions, real-time clock, 800 data point memory capacity, and convenient carrying handle, the pH 1970i is a complete pH measuring system. The standard BNC electrode connector allows you to quickly connect one of the waterproof SenTix® electrodes listed below, or you can use your own existing pH probe.

Specifications

Range	pH: -2.00 to 19.99 mV: ±199.9 or ±1999 Temperature: 23.0 to 221°F (-5.0 to 105°C)
Resolution	pH: 0.01 mV: 0.1 or 1 Temperature: 0.2°F (0.1°C)
Accuracy (±1 digit)	pH: ±0.01 mV: ±0.5 or ±1 Temperature: ±0.1
Temperature Compensation	Automatic with ATC probe or Manual -4 to 266°F (-20 to +130°C) in 1° increments
Buffer Recognition	2.00, 4.01, 7.00, 10.01; and pH 1.979, 4.008, 6.865, 9.18

Datalogging	50 data sets
Output	RS-232
Display	Multi-line LCD
Operating Temp	14 to 131°F (-10 to 55°C)
Storage Temp	-13 to 149°F (-25 to 65°C)
Power	NiMH rechargeable battery or 110/220 VAC adapter
Battery Life	Up to 600 hrs
Dimensions	3-1/2 x 7-7/8 x 7-1/2 inches (90 x 200 x 190 mm)
Weight	3.3 lbs (1.5 kg)
IP rating	IP 67
Certifications	CE



Features

- Waterproof rubberized housing
- Record readings to the built-in memory
- Doubles as a bench top meter

Ordering & Options¹

Order No.	Description
pH1970i	Portable, Waterproof pH Meter w/Universal Power Supply
SenTix® 41	Plastic Body Electrode with Temperature Sensor
SenTix® 21	Plastic Body Electrode without Temperature Sensor

1) Buffers with values of 2.00, 4.01, 7.00, 10.01 are standard US buffers. Buffers with values of 1.679, 4.008, 6.865, 9.18 are NIST buffer values. A pH probe must be ordered separately.

VARIO 2V00 pH Meter

Waterproof pH Meter for Simple Operation and Easy Handling

Description

The innovative VARIO 2V00 pH meter combines handheld convenience with benchtop features for easy pH monitoring.

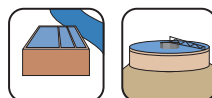
Simple Operation

Just a fingertip touch on the unit's display, and the VARIO is ready for use. Immersion in a solution starts the measurement automatically. Highly accurate pH, mV, and temperature measurements can be read from the VARIO's large display and can also be temporarily locked on the screen or stored to memory. The memory can store up to 50 measured values for later evaluation. When not in use as a pH meter, the VARIO doubles as a laboratory clock or timer.

Specifications

pH Range	-2.00 to 16.00
pH Accuracy	±0.01 pH
Temperature	23 to 212 °F (-5.0 to 100.0°C)
Auto Buffer Recognition	TEC/NIST
Calibration Points	3 (MultiCal®)
Operating Temp	14 to 131°F (-10 to 55°C)
Storage Temp	-13 to 149°F (-25 to 65°C)
Power Source	1 x 1.5 V, type Mignon/AA
Battery Life	Up to 1500 hrs
IP Rating	65
Weight	Approx. 4 oz (115 g)
Dimensions	5-1/2 x 3-1/8 x 1-1/4 inches (140 x 80 x 33 mm)

Applications



Ideal for water and wastewater treatment applications.

Features

- Compact, rugged, and easy to use
- Innovative touch screen display inverts 180 degrees
- Built in memory saves up to 50 readings

Ordering & Options

VARIO pH Meters

Order No.	Description	Electrode
2V00-001V	pH Meter	Short Standard
2V00-1011	pH Meter	SenTix® 21
2V00-1012	pH Meter	SenTix® 41

Replacement Electrodes

Order No.	Description
SenTix® 41	Plastic Body Electrode with Temperature Sensor
SenTix® 21	Plastic Body Electrode without Temperature Sensor





pH/Ion 3400i Ion Selective Electrode Analyzer

Meter for measuring ISE/pH, temperature and ORP

Description

The pH/mV and ion selective electrode analyzer pH/ION 3400i offers the highest degree of flexibility possible. For pH measurements the analyzer can be calibrated manually or automatically and offers simultaneous display of pH and temperature. For measurements with ion-selective electrodes the pH/ION 3400i offers concentration display in mg/l. The analyzer also displays directly in mV to ± 999.9 mV in 0.1 mV steps; and to ± 1999 mV in 1 mV steps.

Of course, even in these higher ranges the pH/ION 3400i calculates the concentration from a mV resolution of 0.1 mV. Calibration of the analyzer is carried out with up to three standards (selected from 16 standards in the range of 0.01 to 1000 mg/l).

Operating on either line power or rechargeable battery for up to 1500 hours with "LoBat" warning means that the analyzer can be used

in the laboratory or in the field. Lightweight and compact, the rugged analyzers are IP 66 (hose proof) and IP 67 (submersible). The pH/ION 3400i has a built-in datalogger for up to 500 measurements together with GLP calibration protocol offers a comprehensive documentation of the results. The analyzer supports analog or digital data transfer (RS 232), automatic recognition of stable measurements (AutoRead), electrode evaluation and calibration interval monitoring functions to ensure reproducible and reliable measurements.

The ion-selective membrane of the electrode consists of a sparingly soluble salt of the ion to be measured (solid state electrodes), a PVC-membrane, modified by an ion exchanger or ion carrier (matrix electrodes), glass (glass electrode) or a gas-permeable plastic (gas-sensitive electrodes). The activity of the ions to be measured determines the electrode current. With increasing activity of the anions the voltage turns more negative, with increasing activity of cations, more positive. An ion selective electrode analyzer uses the electrode signal to calculate the concentration of the sample.

Features

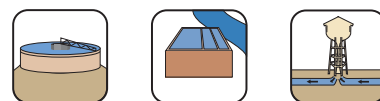
- Simultaneous display of pH and temperature
- Up to 1500 hours with "LoBat" warning
- Built-in datalogger
- IP67 waterproof rated

Specifications

Measuring Ranges	pH: -2.000 to +19.999, -2.00 to +19.99 mV: -999.9 to +999.9, -1999 to +1999 Temp: -23 to 221 °F (-5.0 to 105.0 °C) ISE: 0.000 to 9.999 mg/l, 0.00 to 99.9 mg/l, 0.0 to 999.9 mg/l, or 0 to 1999 mg/l
Measuring Resolution	pH: 0.001, 0.01 mV: 0.1, 1 Temp: 0.2°F (0.1°C) ISE: 0.001 mg/l, 0.01 mg/l, 0.1 mg/l, 1 mg/l
Precision	pH (\pm pH units from the calibration point): ± 0.003 from 59 to 95 °F (15 to 35 °C), +0.01 mV: ± 0.2 from 59 to 95 °F (15 to 35 °C) Temp: ± 0.1 (NTC 30); ± 0.5 from 32 to 59 °F (0 to 15 °C), ± 0.1 from 59 to 95 °F (15 to 35 °C), ± 0.2 from 95 to 131 °F (35 to 55 °C) (PT 1000)
pH correction function	Manual from -4 to 266 °F (-20 to 130 °C)

Usable ISE electrodes	Combination and single electrodes with connector according to DIN 19262
ISE calibration procedure	Two point calibration or three point calibration with standards suiting the sample
ISE slope ranges	± 25 to 35 mV and ± 50 to 70 mV
Ambient Conditions	Storage: -13 to +149 °F (-25 to +65 °C) Operation: 14 to 131 °F (-10 to +55 °C) Climatic Class: 2
Power	Batteries: 4 x 1.5 V alkali-manganese batteries, type AA Operational life: approx. 3000 operating hours Mains: The following applies to all plug-in power supplies: Connection max. overvoltage category II Input: 100 to 240 V ~ / 50 to 60 Hz / 400 mA Output: 9 V = / 1.5 A
Weight	0.7 lbs (0.3 kg)
Size	6.8x3.1x1.5 in (172x80x37 mm)
IP Rating	IP-66 & 67
Certifications	cETLus, CE
Electrical Safety	Protective class III

Applications



Ideal for drinking water, wastewater, salt water, wine.

Ordering & Options

Order No.	Description
pH/Ion 3400i	Ion Selective Electrode Analyzer
SenTix 21	pH Electrode w/ 3.3 ft (1 m) of cable and no temp comp
SenTix ORP	ORP Electrode w/ 3.3 ft (1 m) of cable
ISE Electrodes	See page 77

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