

pH/Ion 2100 Meter

Unsurpassed performance with the added flexibility of pH, ORP, or ISE measurements

High resolution: 0.001 pH
High accuracy: ±0.002 pH

Ion concentration mode

▼ With direct display of ion-selective values in ppm, ppt, or any other units of your choice

Backlit two-line, dot matrix display

▼ Provides clear instructions for setup, measurement, and calibration

Up to five customizable calibration points

▼ Choose your own, or select U.S. Standard or NIST buffer sets

Displays last calibration date and time

High/low set point alarms

▼ Signal readings outside your preset limits

Calibration due alarm

▼ User-defined interval ensures regularly scheduled recalibration for ISO and GLP compliance

Stores up to 100 readings with date and time into memory

▼ Store readings either manually or on programmable real-time intervals

Features RS-232 output and free DAS for Windows® software; analog recorder output

Built-in real time clock

▼ With timer alarm

°C/°F selectable

Manual or automatic temperature compensation (ATC)

Calculates electrode slope and offset automatically

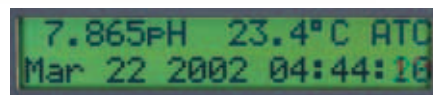
Detachable electrode holder; quick reference instruction card



Top: The pH/Ion 2100 meter shown with built-in electrode stand and handy pull-out instruction card. The electrode stand can be mounted to either side of meter.

Lower left: Use these meters with an optional portable printer to provide you with a printed record of your readings and calibration data.

Lower right: Connect these meters to your PC and download data in a format ideal for importing into spreadsheet software.



Backlit two-line, 20-character display clearly shows measurements, time/date, error messages, and setup prompts to guide the user from step to step.

Use the pH/Ion 2100 meter to document large volumes of critical pH, mV or ion data sets. Meter sends measurements to a printer or PC with the touch of a button, or on timed intervals. Free software allows you to download data to your computer in a format easy to import into spreadsheet software. Advanced setup mode allows you to customize meter parameters.

Compact housing maximizes your valuable benchtop space. Backlit two-line, 20-character dot matrix display shows pH or mV reading plus temperature (°C/°F) or ion plus electrode mV value and current date/time. Includes instruction card that stores underneath meter for quick reference. Includes built-in electrode stand that attaches to either side of the meter.



Applications

Laboratory/Industrial: Use for water quality testing, sewage treatment, soil testing, fertilizer testing, plant tissue testing, food processing (for HACCP compliance), geological testing, and metal plating. Also use in the paper/pulp or pharmaceutical industries. Suitable for most ASTM and EPA test procedures.

ORP: Use with ORP electrode (model 35805-14; order below) to monitor plating operations, ozonation system efficiency, and other redox measurements.

ISE: Use with any of 20 types of ISE electrodes to take direct measurements of ion concentration.

ISO9001:2000
CERTIFIED SUPPLIER

CE 3 year warranty

Specifications

Mode	pH	mV or relative mV	Ion	Temperature
Range	-1.000 to 14.000 pH	±1850 mV	0.000 to 19999 concentration units	-5.0 to 105.0°C (23.0 to 221.0°F)
Resolution	0.001 pH or 0.01 pH selectable)	0.1 mV	0.001, 0.01, 0.1, or 1	0.1°C/°F
Accuracy	±0.002 pH or ±0.01 pH	±0.2 mV	±0.5% of reading	±0.3°C (±0.5°F)
Calibration	Up to five customizable calibration points, or select buffer sets: USA (1.68, 4.01, 7.00, 10.01, 12.45); NIST (1.68, 4.01, 6.86, 9.18, 12.45); Bf1 (1.68, 4.01, 7.01, 9.18, 12.45); Bf2 (1.68, 4.01, 6.86, 10.01, 12.45)	Offset up to ±150 mV	Up to five customizable calibration points	Offset up to ±5.0°C (±9.0°F)
Connectors	BNC	BNC	BNC	Mini phono plug

Input impedance: 1 GΩ

Temperature compensation: manual or automatic from -5.0 to 105.0°C

Memory: up to 100 readings

Recorder output: ±1850.0 mV (proportional to input)

RS-232 specifications: selectable baud rate, stop bit, and parity

Computer requirements: 386 and above that can run Microsoft Windows® 95 or higher, hard disk with approx 500 KB free disk space, EGA monitor or above, 9-pin serial port connecting cable, mouse.

Printer requirements: accepts serial output as per RS-232 specifications

Display: backlit alphanumeric LCD, 2 lines, 20 characters

Output connectors

Recorder: mini-pin (submini phono plug)

RS-232/printer: 9-pin female

Error messages: diagnose operator error, electrode error, and meter error. Pull-out instruction card decodes message

Operating temperature: 0 to 50°C, noncondensing humidity

Power: 9 VDC, 500 mA; using AC adapter (included); 110 VAC, 60 Hz or 220 VAC, 50 Hz. AC adapter is CSA and UL listed.

Dimensions

Meter: 7.2"D x 9.2"W x 2.5"H (18 x 23 x 6.4 cm)

Boxed: 10"D x 15.5"W x 3.5"H (25 x 39 x 9 cm)

Weight

Meter only: 1.25 lb (0.6 kg); Boxed: 3 lb (1.4 kg)



Slide-out instruction card with abbreviated keypad functions stores neatly below meter.



Compact, rechargeable portable printer lets you document readings and calibration information (order separately).

Ordering Information

Catalog number	Description	Included
WD-35621-02	pH/Ion 2100 meter only	Meter, software, and AC adapters
WD-35621-00	pH/Ion 2100 meter	Meter, double-junction glass body pH electrode, stainless steel temperature probe, software, and AC adapters

Accessories (for pH 1100 meters also)

WD-35622-00 Portable printer, 110 VAC

WD-35622-05 Portable printer, 220 VAC

WD-35622-59 RS-232 cable, 25 pin (M) to 9 pin (M), connects printer to meter

WD-35615-09 RS-232 cable, 9 pin (M) to 9 pin (F), connects meter to PC

WD-35622-60 Replacement ribbon cartridge

WD-35622-62 Replacement paper roll

pH and ORP Electrodes

WD-35805-04 Replacement pH electrode, double junction, glass body, refillable, 3-ft cable, general-purpose research

WD-35613-05 Replacement temperature probe, 304 stainless steel

WD-35811-71 "All-in-one" pH electrode/temperature probe, single junction, epoxy body

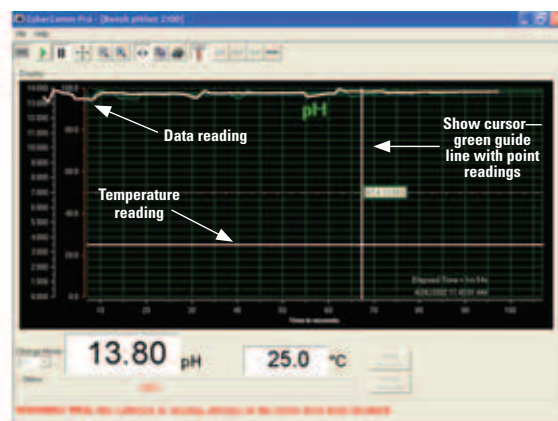
WD-35811-72 "All-in-one" pH electrode/temperature probe, double junction, epoxy body

WD-35805-14 ORP electrode, platinum band, single junction, epoxy body

Software Features

Function icons—just one click away.

Mode drop-down menu—for mode changing. (Ion mode available on pH/Ion 2100 only.)



pH Calibration Buffer Solutions

±0.01 pH accuracy at 25°C. Certified to NIST traceable standards.

Catalog number	Description
WD-00654-01	pH 1.68 calibration buffer, one-pint bottle
WD-00654-00	pH 4.01 calibration buffer, one-pint bottle
WD-00654-04	pH 7.00 calibration buffer, one-pint bottle
WD-00654-08	pH 10.00 calibration buffer, one-pint bottle
WD-00654-12	pH 12.45 calibration buffer, one-pint bottle

See pages 30–31 for Ion-selective electrodes