

pH METER, HAND HELD

Portable pH meter, with manual temperature compensation. The front panel allows selection of pH, mV (REDOX), and temperature modes along with a simple 2 point calibration through slope and offset trimmers. The pH offset and slope are manually adjustable in order to display to students the concept of calibration and electrode characteristics. Expected battery life of 100 hours of continuous use.

Technical Data

Ranges:	pH	0.00 to 14.00
	mV	±1999
Resolution:	pH	0.01
	mV	1
Accuracy:	pH	±0.01
	mV	±1
Calibration:	Manual 2 points through trimmers	
Temperature compensation:	Manual 0 to 100°C	
Environment:	0 to 50°C (32 to 122°F); 95% RH	
Dimensions:	185 x 82 x 45mm	
Weight:	520g	

Supplied with combination refillable double-junction pH electrode with BNC and 1m cable, 9V battery and full instructions.

C51-5040 pH Meter, Hand Held

Spare Parts and Accessories

- C30-5260** Soft Carrying Case
- C51-5041** Rugged Carrying Case Kit
- C51-5042** Buffer Solution, pH 4.01, 460ml
- C51-5043** Buffer Solution, pH 7.01, 460ml
- C51-5044** Buffer Solution, pH 10.01, 460ml
- C51-5045** Storage Solution, 460ml
- C51-5046** 3.5M KCl Electrolyte, 4 x 30ml
- C51-5047** Electrode Holder



C51-5040

pH/TEMPERATURE METER, WATERPROOF, HAND HELD

Hand held meters, in waterproof casing, with multi-parameter electrode including a built-in temperature sensor and a mini amplifier for extremely stable results. The large digital display shows pH and temperature readings simultaneously, and a mV scale in model **C51-5110**, also feature stability indicator and hold function and graphic symbols to guide the user through all operations. Expected battery life of 1500 hours of continuous use, with a self check at start-up and an indication of remaining battery level.

Technical Data

	C51-5100	C51-5110
Ranges:		
pH	-2.00 to 16.00	-2.00 to 16.00
mV	-	±1999
Temp.	-5 to 105°C or 23.0 to 221.0°F	
Resolution:		
pH	0.01	0.01
mV	-	1
Temp.	0.1°C or 0.1°F	
Accuracy:		
pH	±0.02	±0.02
mV	-	±2
Temp.	±0.5°C up to 60°C, ±1°C up to 105°C ±1°F up to 140°F, ±2°F up to 221°F	
Calibration:	Automatic 1 or 2 points with standard buffers	
ATC:	-5 to 105°C (23 to 221°F) for pH only	
Environment:	0 to 50°C (32 to 122°F); 100% RH	
Dimensions:	150 x 80 x 36mm	
Weight:	245g	

Supplied complete with electrode, 3 x 1.5V batteries, carrying case and full instructions.

C51-5100 pH/Temperature Meter

C51-5110 pH/mV/Temperature Meter

Spare Parts and Accessories

C51-5130 Rugged Carrying Case Kit

C51-5042 Buffer Solution, pH 4.01, 460ml

C51-5043 Buffer Solution, pH 7.01, 460ml

C51-5044 Buffer Solution, pH 10.01, 460ml

C51-5045 Storage Solution, 460ml

C51-5047 Electrode Holder



C51-5100

pH/TEMPERATURE METER, PRINTING & LOGGING

Hand held meters, with built-in plain paper printer, logging and log-on demand features. Features intelligent electrode with a built-in temperature sensor, infrared interface connected to serial RS 232 port, and GLP (Good Laboratory Practice) capabilities. The dual level back-lit digital display shows graphic symbols and messages guiding the user through calibration and measurement procedures, and a stability indicator. Expected battery life of 350 hours of continuous use, without back light, or can be powered by a 12V adapter (included).

Technical Data

	C51-5170	C51-5180
Ranges:		
pH	-4.00 to 19.99	-4.00 to 19.99
mV	-	±400.0/2000
Temp.	-10.0 to 120.0°C or 14.0 to 248.0°F	
Resolution:		
pH	0.01	0.01
mV	-	0.1/1
Temp.	0.1°C or 0.1°F	
Accuracy:		
pH	±0.01	±0.01
mV	-	±0.5/2
Temp.	±0.5°C 0 to 60°C, ±1°C outside ±1°F 32 to 140°F, ±1.8°F outside	
Calibration:	Automatic 1 or 2 points with 5 memorised stand. buffers	
ATC:	-10 to 120°C (15 to 248°F)	
Logging interval:	1, 2, 5, 10, 15, 30, 60, 120 or 180 minutes	
Environment:	0 to 50°C (32 to 122°F); 95% RH	
Dimensions:	220 x 82 x 66mm	
Weight:	500g	

Supplied complete with electrode, 12VDC adapter, 4 x 1.5V batteries, pH 4.01/7.01 buffer solutions, cleaning solution, 5 rolls of printer paper, hard carrying case and full instructions.

C51-5170 pH/Temperature Meter

C51-5180 pH/mV/Temperature Meter

Spare Parts and Accessories

C51-5190 Windows Compatible Software

C51-5191 9-pin Infrared Transmitter for PC, cradle for meter, data can then be transmitted to Personal Computer

C51-5192 Plain Printer Paper, pack of 10

C51-5042 Buffer Solution, pH 4.01, 460ml

C51-5043 Buffer Solution, pH 7.01, 460ml

C51-5044 Buffer Solution, pH 10.01, 460ml

C51-5045 Storage Solution, 460ml

C51-5047 Electrode Holder



C51-5180

pH METERS, HAND HELD, JENWAY

General purpose, hand held pH meter offering a 1 or 2 point pH calibration and automatic buffer recognition with manual override. The custom liquid crystal display simultaneously shows temperature compensated pH readings and the manually set temperature. Performs a self test routine at "power on". Calibration errors are clearly indicated, together with the parameter in error and the electrode potential. Also features a 32 reading Data Storage facility, Manual Temperature Compensation on model **C51-5250** and Automatic Temperature Compensation on model **C51-5310**. Indication of battery life is also permanently shown on the display. An automatic switch off facility helps to conserve battery life. The instrument is housed in a robust, ergonomically designed case protected to IP65.

Technical Data

	C51-5250	C51-5310
Ranges:		
pH	-2 to 16.00	-2 to 16.00
mV	-	±1999
Temperature	-	-10 to 105°C 14 to 221°F
Resolution:		
pH	0.01	0.01
mV	-	1
Temperature	-	0.1°C/1°F
Accuracy:		
pH	±0.02	±0.02
mV	-	±1
Temperature	-	±0.5°C/±1°F
ATC & MTC ranges:	0 to 100°C (MTC)	0 to 100°C (ATC)
Auto std recognition:	4, 7, 9.22, 10.00, manual override	
Dimensions:	175 x 75 x 35mm	
Weight:	250g	

Supplied complete with epoxy combination electrode, ATC probe on model **C51-5310**, pH 4, 7 & 10 buffer sachets, 2 x AA batteries, rugged carrying case and full instructions.

C51-5250 pH Meter

C51-5310 pH/mV/Temperature Meter

Spare Parts and Accessories

C51-5340 pH 4 Buffer Sachets, pack of 10

C51-5341 pH 7 Buffer Sachets, pack of 10

C51-5342 pH 10 Buffer Sachets, pack of 10

C51-5343 pH 4 Buffer Solution, coloured red, 500ml

C51-5344 pH 7 Buffer Solution, coloured yellow, 500ml

C51-5345 pH 10 Buffer Solution, coloured blue, 500ml

C51-5346 3M KCl Electrode Filling Solution, 100ml

C51-5347 Electrode Cleaning Solution, 500ml



C51-5250



C51-5310

pH METER, HAND HELD, JENWAY

Waterproof hand held pH meter, featuring 1 or 2 point calibration and automatic temperature compensation. Navigation keys enable easy access to the operating and set up menus, while the CAL key enables a fully automatic calibration to be carried out with the minimum number of key presses. Automatic buffer recognition can be used or overridden so calibration can be set at any two points across the full pH range. Both mV and relative mV modes can be selected to enable Redox (ORP) measurements to be made as well as giving the ability to check and monitor electrode performance.

The memory key gives access to the 100 reading non-volatile memory, each stored reading automatically going to the next available memory location. During storage manual selection can be enabled so the reading can be saved in an alternative location or can overwrite an existing reading in the memory.

Technical Data

Ranges:	pH	-2 to 16.00
	mV	±1999
	Temp.	-10 to 105°C, 14 to 221°F
Resolution:	pH	0.01
	mV	1
	Temp.	0.1°C/1°F
Accuracy:	pH	±0.02
	mV	±1
	Temp.	±0.5°C/1°F
ATC:		0 to 100°C
Auto std recognition:		4, 7, 10.00, manual override
Dimensions:		200 x 80 x 60mm
Weight:		370g

Supplied complete with pH/temperature probe, pH 4 & 7 buffers, detachable electrode lead, waterproof to BNC lead, 3 x 1.5V AA batteries and full instructions in a rugged case.

C51-5410 pH/mV Meter

Spare Parts and Accessories

- C51-5340** pH 4 Buffer Sachets, pack of 10
- C51-5341** pH 7 Buffer Sachets, pack of 10
- C51-5342** pH 10 Buffer Sachets, pack of 10
- C51-5343** pH 4 Buffer Solution, coloured red, 500ml
- C51-5344** pH 7 Buffer Solution, coloured yellow, 500ml
- C51-5345** pH 10 Buffer Solution, coloured blue, 500ml
- C51-5346** 3M KCl Electrode Filling Solution, 100ml
- C51-5347** Electrode Cleaning Solution, 500ml



C51-5410

pH /ION METER, HAND HELD, JENWAY

Waterproof hand held pH/mV/ion meter, featuring 1 or 2 point calibration, automatic temperature compensation and an additional dedicated ion mode designed to work with six common ISE's. Calibration in the ion concentration mode can be made using 1-5 standard solutions and the values appended with a variety of concentration units.

Simple navigation keys enable easy set up and operation from menu selections which may be viewed on the large LCD screen. Up to 100 readings can be stored, all stored results have a date and time stamp. Data can be downloaded to a printer or other device using the optional interface cradle.

A full range of combination ISE's is available, these have a suitable reference junction integrated with the ion selective sensor.

The instrument is housed in a robust casing, protected to IP67.

Technical Data

Ranges:	pH	-2 to 16.00
	mV	±1999
	Temp.	-10 to 105°C, 14 to 221°F
Resolution:	pH	0.01
	mV	1
	Temp.	0.1°C/1°F
Accuracy:	pH	±0.02
	mV	±1
	Temp.	±0.5°C/1°F
ATC:		0 to 100°C
Auto std recognition:		4, 7, 10.00, manual override
Activity:		1x10 ⁻⁹ to 9.999x10 ⁹ (int or exp)
Concentration units:		activity, %, ppm, mg/l, moles and none
Dedicated ion:		ammonium, calcium, chlorine, fluoride & nitrate
Clock:		24 hour, hrs/min/sec or day/month/year
Dimensions:		200 x 80 x 60mm
Weight:		370g

Supplied complete with pH/temperature probe, pH 4 & 7 buffers, detachable electrode lead, waterproof to BNC lead, 3 x 1.5V AA batteries and full instructions in a rugged case.

C51-5500 pH/Ion Meter**Ion Selective Electrode Kits**

Each kit comprises: electrode for specific ion, calibration solution, ionic strength adjustment buffer and BNC to S7 lead.

C51-5520 Ammonium Electrode Kit

C51-5521 Calcium Electrode Kit

C51-5522 Chloride Electrode Kit

C51-5523 Fluoride Electrode Kit

C51-5524 Nitrate Electrode Kit

Spare Parts and Accessories

C51-5340 pH 4 Buffer Sachets, pack of 10

C51-5341 pH 7 Buffer Sachets, pack of 10

C51-5342 pH 10 Buffer Sachets, pack of 10

C51-5343 pH 4 Buffer Solution, coloured red, 500ml

C51-5344 pH 7 Buffer Solution, coloured yellow, 500ml

C51-5345 pH 10 Buffer Solution, coloured blue, 500ml

C51-5346 3M KCl Electrode Filling Solution, 100ml

C51-5347 Electrode Cleaning Solution, 500ml

C30-5760 Printer

C30-5770 Interface Cradle

C30-5780 Interface Cable Kit

C30-5790 Paper Roll, for printer



C51-5500

pH/CONDUCTIVITY/TDS METER, HAND HELD, JENWAY

Allows the simultaneous readout of pH, conductivity or TDS and temperature using the custom liquid crystal display.

Features 1 or 2 point pH calibration and automatic buffer recognition with manual override.

Conductivity calibration can be performed on standard solutions or by direct cell constant entry. The conductivity/TDS range is automatically selected for optimum resolution and temperature compensated using an adjustable temperature coefficient.

Reference temperature can be set to 18, 20 or 25°C.

Calibration errors are clearly indicated, together with the parameter in error.

The meter is supplied with a combined pH and conductivity probe assembly (a temperature sensor is also incorporated to provide automatic temperature compensation). The probe connects to the instrument via a single mini-DIN connector for operator convenience.

Indication of battery life is permanently shown on the display, automatic switch off facility helps to conserve battery life.

The instrument is housed in a robust, ergonomically designed case protected to IP65.

Technical Data

Ranges:	pH	0 to 14
	Cond.	5 automatically selected 0 to 199.9mS
	TDS	5 automatically selected 0 to 199.9g/l
	Temperature	-9.9 to 99.9°C/14 to 221°F
Resolution:	pH	0.01
	Cond.	0.01µS to 0.1mS
	TDS	0.01mg/l to 0.1g/l
	Temperature	0.1°C/1°F
Accuracy:	pH	±0.02
	Cond.	±0.5% ±2 digits
	TDS	±0.5% ±2 digits
	Temperature	±0.5°C/±1°F
ATC & Manual ranges:		0 to 99.9°C/32 to 212°F
Cell constant:		0.01 to 19.99
EC ratio (TDS):		0.50 to 0.80
Reference temperature:		18, 20, 25°C
Temperature coefficient:		0.00 to 4%/°C
Auto buffer recognition:		4, 7, 9.22, 10.05
Auto std recognition:		10µS, 84µS, 1413µS, 12.88mS
Power:		2 x AA cells
Dimensions:		175 x 75 x 35mm
Weight:		250g

Supplied complete with combined pH/conductivity probe, pH 4, 7 & 10 buffer sachets, 2 x AA batteries, rugged carrying case and full instructions.

C51-5570 pH/Conductivity/TDS Meter

Spare Parts and Accessories

- C30-5610** Calibration Solution, 10µS, 500ml
- C30-5620** Calibration Solution, 1413µS, 500ml
- C30-5630** Calibration Solution, 12.88mS, 500ml
- C30-5640** Calibration Solution, 84µS, 500ml
- C30-5650** Calibration Solution, 1382ppm, 500ml
- C51-5340** pH 4 Buffer Sachets, pack of 10
- C51-5341** pH 7 Buffer Sachets, pack of 10
- C51-5342** pH 10 Buffer Sachets, pack of 10
- C51-5343** pH 4 Buffer Solution, coloured red, 500ml
- C51-5344** pH 7 Buffer Solution, coloured yellow, 500ml
- C51-5345** pH 10 Buffer Solution, coloured blue, 500ml



C51-5570