- PH, CU, BL, PJ Технические характеристики

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aep@nt-rt.ru || https://ajcope.nt-rt.ru/

Hand-held, Waterproof pH Meters, Handylab HL100 and HL600 **SI Analytics**

- Ruggedly constructed, water-tight housing to ٠ IP67 standard
- Simultaneous display of pH or mV and ٠ temperature with subsidiary date and time
- AutoRead system provides a stable, precise ٠ measurement and CMC (Continuous Measurement Control) monitors whether the measurement is within calibration limits
- ٠ Automatic temperature compensation
- ٠ Calibration using up to 5 pre-programmed buffer sets
- Backlit, graphics LCD display ٠

Model

Storage of up to 200 data sets which can be ٠ recalled and displayed

Additional features of HL600:

- IDS Technology digitisation of the measuring ٠ signal to reduce interference
- QSC (Quality Sensor Control) provides ٠ information on electrode condition and efficiency
- USB interface for outputting data as a .csv file ٠ or to MS-Excel files using software provided for the user's PC

Handvlab HL600

Enhanced data storage to 500 sets

Hand-held, Waterproof pH Meters, Handylab

As described. Supplied with combination pH/°C electrode, fixed 1.5 metre connection cable, buffer solutions 4 x 1.5V, batteries, instructions and carrying case.

PH400-25	Handylab	HL100
PH400-35	Handylab	HL600

Accessories and Spares

PH403-07	Spare pH/°C electrode for PH400-25 only
PH403-09	Spare pH/°C electrode for PH400-35 only
CU612-65 BL610-15	Protective overboot, Z389 Battery, 1.5V (4 required)

Buffer solutions

20ml capacity, double-ended glass ampoules, steam sterilised and without preservative to extend solution shelf-life. The ampoules are scored at the tip of either end for ease of opening without tools. Solution accuracy ±0.01pH units at +25°C. Supplied in packs of 60 ampoules.

			, , , , , , , , , , , , , , , , , , ,
Ranges x resolution, accuracy n	pH nV (ORP)	-2.0 to 20.0 x 0.1, ±0.1 -2.00 to 20.00 x 0.01, ±0.01 -2.000 to 19.999 x 0.001, ± 0.005 -1200.0 to +1200.00 x 0.01, ± 0.3 -2500 to +2500 x 1, ±1	0.000 to 14.000 x 0.001, ±0.004
Temp. comp. °C (°F se	lectable)	-5.0 to +105.0 x 0.1, ±0.1	-5.0 to +105.0 x 0.1, ±0.2
Calibration points		Up to 5 — both models	
Stored buffers		22 pre-programmed — both mod	dels
Calibration memory		1 x last undertaken	10 x last undertaken
Timer		_	1 to 999 days
Continuous Measurement C (CMC)	Control Yes -	— both models	
Quality Sensor Control		No	Yes
Datalogging memories		200 data sets	500 manual or 5000 automatic data sets
Logger			Yes (manual or timed)
Outputs		-	Mini-USB-B
Power		4 x 1.5V AA batteries — both mo	odels
Overall L x W x H	mm	180 x 80 x 55 — both models	
Weight	g	400 — both models	

Handvlab HL100

Standard buffers to DIN19266

PH404-02	pH 1.68
PH404-04	pH 4.01
PH404-06	pH 6.87
PH404-08	pH 9.18

Technical buffers to DIN19267

PH404-17	pH 4.00
PH404-21	pH 7.00

PH404-25 pH 10.00





PH400-25 in use

PH400-35

pH meters

Bench pH Meters inoLab® pH Series

a xylem brand

High specification bench meters for routine and advanced research applications in education and industry.

- AutoRead function provides repeatable measuring results by recognising when a stable reading has been achieved
- Intuitive user interface and clear controls
- Easy calibration function with timer
- Automatic or manual temperature compensation

- Flexible operation either by batteries or mains supply using universal voltage adapter
- Model pH 7310 additionally includes a graphics display, GLP/AQA documentation function, USB output of results in .csv format, CMC function that monitors the calibration range and indicates if the measurement is between calibration points, and is available with an internal printer

7110	7310
-2.0 to 20.0 x 0.1, ±0.1pH ±1 digit -2.00 to 20.00 x 0.01, ±0.01pH ±1 digit -2.000 to 20.000 x 0.001, ±0.005pH ±1 digit – bot	th models
±1200.0 x 0.1, ±0.3 ±1 digit – both models ±2000 x 1, ±1 ±1 digit	±2500 x 1, ±1 ±1 digit
-5.0 to 105.0 x 0.1°C ±0.1 ±1 digit – both models	
up to 3	up to 5
1	10
Automatic and manual – both models	
BNC	BNC
_	Mini USB-B
-	500 – manual records 5000 – automatic records
LCD	Backlit graphics LCD
4 x 1.5V AA batteries or universal voltage a.c. adapter for 100-240V 50/60Hz single phase supplies	4 x 1.5V AA batteries, 5V USB charge point or universal voltage a.c. adapter for 100-240V 50/60Hz single phase supplies
240 x 190 x 80	240 (290 - printer model) x 190 x 80
3.5 – both models	
	7110 -2.0 to 20.0 x 0.1, ±0.1pH ±1 digit -2.00 to 20.00 x 0.01, ±0.01pH ±1 digit -2.000 to 20.000 x 0.001, ±0.005pH ±1 digit – bot ±1200.0 x 0.1, ±0.3 ±1 digit – both models ±2000 x 1, ±1 ±1 digit -5.0 to 105.0 x 0.1°C ±0.1 ±1 digit – both models up to 3 1 Automatic and manual – both models BNC - LCD 4 x 1.5V AA batteries or universal voltage a.c. adapter for 100-240V 50/60Hz single phase supplies 240 x 190 x 80 3.5 – both models

Spares and Accessories

BNC connector

and BNC connector

Spare paper roll for PH480-60

Battery, 1.5V (4 required)

PH486-09

PH486-12

CU683-10

BL610-15

Bench pH Meters, inoLab® pH series

As described. Supplied as a meter only with electrode stand, instructions and a.c. adapter requiring a 100-230V 50/60Hz single phase supply. Models 7310 are additionally supplied with a USB cable and software for use on WindowsTM computers.

PH480-40 inoLab® pH 7110 meter only, BNC input

PH480-50 inoLab® pH 7310 meter only, BNC input

PH480-60 inoLab[®] pH 7310 meter only with built-in printer, BNC input





Accessory Sentix 42 gel pH/°C electrode, 1.5 metre cable and

Accessory Sentix 82 precision pH/°C electrode, 1.5 metre cable

PH480-60, PH480-50 is similar

PH480-40

Bench pH/ion Meter inoLab® pH/ION 7320

a xylem brand

High specification bench meters for routine and advanced research applications in education and industry.

- ٠ AutoRead function provides repeatable measuring results by recognising when a stable reading has been achieved
- ٠ Choice of ion measurement functions including 2 to 7 point direct potentiometry and incremental methods; operates with combination or half-cell and reference electrode systems
- ٠ Intuitive user interface and clear controls
- Flexible operation either by batteries or mains supply using a universal 4 voltage adapter
- Easy calibration function with timer
- Automatic or manual temperature compensation
- Graphics display, GLP/AQA documentation function, USB output of results in .csv format, CMC function that monitors the calibration range and ٠ indicates if the measurement is between calibration points, and is available with an internal printer

Model, inolab [®] pH/ION	7320
Range x resolution, accuracy pH	-2.0 to 20.0 x 0.1, ±0.1pH ±1 digit
5 . , , , ,	-2.00 to 20.00 x 0.01, ±0.01pH ±1 digit
	-2.000 to 20.000 x 0.001, ±0.005pH ±1 digit
mV	±1200.0 x 0.1, ±0.3 ±1 digit, ±2000 x 1, ±1 ±1 digit
٥٥	-5.0 to 105.0 x 0.1°C ±0.1 ±1 digit
ISE ranges: mg/l, µmol/l, mg/kg, ppm, %	0.000 to 9.999 x 0.001, 10.00 to 99.99 x 0.01, 100.0 to 999.9 x 0.1, 1000 to 999999 x 1
Calibration points	pH: up to 5, ISE up to 7
records	10
Temperature compensation	Automatic and manual – both models
Inputs	2 x BNC
Output	Mini USB-B
Memories	500 – manual records, 5000 – automatic records
Display	Backlit graphics LCD
Power	4 x 1.5V AA batteries, 5V USB charge point or universal voltage a.c. adapter for 100-240V 50/60Hz single phase supplies
Overall W x D x H mm	240 (290 - printer model) x 190 x 80
Weight kg	3.5 – both models

Bench pH/ion Meter, inoLab® pH/ION 7320

As described. Meter only with 2 x BNC inputs, USB cable and software for use on Windows[™] computers, batteries and a.c. adapter requiring a 100-230V 50/60Hz single phase supply. Without electrodes.

6.749

22.40 mg/1 22.3 °C

AR

inolab_ids

pH/ION 7320

RCL

22.3 °C

PH480-90 inoLab® pH/ION 7320 BNC

PH480-95 inoLab[®] pH/ION 7320 BNC with built-in printer

pH

ISE

STO

Spares and Accessories

PH486-12 Accessory Sentix 82 precision pH/°C electrode, 1.5 m cable and **BNC** connection Spare paper roll for PH480-60 CU683-10 BL610-15

Battery, 1.5V (4 required)

Ion Selective Electrode Kits

Comprise maintenance free ISE electrode, one 500ml bottle of 1000ppm calibration standard, one 500ml bottle of ionic strength adjustment buffer and S7 screw fitting to BNC terminated lead. For ion determination as indicated.

PJ379-05 Ammonium PJ379-09 Calcium PJ379-13 Chloride PJ379-17 Fluoride PJ379-21 Nitrate



PH480-95

PH480-90

Portable pH Meters, FiveGo™

METTLER TOLEDO

- Compact design with built-in, hingeing stand for bench use
- IP67 protection level housing
- Simultaneous display of pH or mV and temperature with end-point , electrode condition and battery indicators
- Calibration with 3-point automatic buffer recognition of 4 pre-defined buffer groups
- Automatic or manual temperature compensation
- Automatic or manual end-point recognition
- Separate pH and temperature inputs
- Large, segmented LCD readout

Model		F2
Ranges	pH mV	0.00 to 14.00 -1999 to +1999
	C	0.0 to 100.0 (32 to 212°F)
Calibration		3-point, with 4 pre-defined buffer groups
Temperature compensation		Automatic or manual
Input		BNC (pH), Cinch/RCA NTC 20k (temperature)
Impedance		10 ¹² Ω
Power		4 x 1.5V AAA batteries
Overall W x D x H	mm	77 x 33 x 188
Weight	kg	0.26

As described. Supplied as a standard kit with electrode clip, wrist strap, instructions, batteries, 3-in-1 pH/°C electrode LE438, IP67 sealing caps, 2 x pH4.01 and 2 x pH7.00 standard sachets. Alternatively available as a field kit which additionally includes a carrying case and 4 x 25ml sample bottles, or meter only with instructions and 4 x 1.5V batteries.

PH608-11	F2-Standard kit
PH608-21	F2-Field kit
PH608-31	F2-Meter only

Accessories and Spares

PH611-08 PH611-10 PH611-16	LE409 refillable glass pH electrode LE420 refillable glass pH electrode with adjustable PTFE junction. Suitable for waste water, TRIS buffer solutions and oil samples LE407 robust, gel-filled pH electrode
PH611-19	LE438 3-in-1 robust, pH/°C electrode for field use
PH611-24 CU617-14 BL610-08	LE501 glass redox electrode Temperature sensor NTC 30kOhm 1.5V AAA battery (4 required)



Bench pH Meters, FiveEasy[™] / FiveEasy Plus[™]

METTLER TOLEDO

Compact, reliable, simple bench pH meters for routine measurement in industrial and educational applications.

- Simultaneous display of measurement, temperature and end-point recording with electrode condition and memory usage indicators
- Calibration with 3-point automatic buffer recognition with 4 pre-defined buffer groups, or 5-point automatic buffer recognition with 4 pre-defined buffer groups (FP20-model only)
- Automatic or manual temperature compensation
- Automatic or manual end-point recognition
- Separate pH, temperature and reference inputs
- Easy set-up using navigation keys and intuitive display icons
- Large, segmented LCD readout
- FiveEasy Plus[™] FP20 model also includes the following features:
 - RS232 and USB interfaces for data transfer to the user's personal computer
 - data storage memory of 200 measurements

Model		F20	FP20
Ranges	pH mV temperature	0.00 to 14.00 -2000 to +2000 0.0 to 100.0°C (32 to 212°F)	-2.00 to 16.00 -2000 to +2000 -5.0 to 105.0°C (23 to 221°F)
Resolution	pH mV temperature °C	0.01 1 0.1	0.01/0.1 1 0.1
Calibration		3-point, 4 pre-defined buffer groups	5-point, 4 pre-defined buffer groups
Temperature comp	ensation	Automatic or manual	Automatic or manual
Inputs		BNC (pH), Cinch/RCA NTC 20k (temperature), 2mm banana socket (reference)	BNC (pH), Cinch/RCA NTC 20k (temperature), 2mm banana socket (reference)
Impedance		10 ¹² Ω	10 ¹² Ω
Memory storage		Current calibration only	Current calibration and 200 measurements
Interfaces		Analogue	RS232 and USB
Power		a.c. adapter requiring a 100-240	/ 50/60Hz supply — both models
Overall W x D x H	mm	207x 147 x 70 — all models	
Weight	kg	0.63 — all models	

As described. Supplied as a standard kit with LE438 3-in-1 combination pH/°C electrode, electrode arm, 2 x pH4.01 and 2 x pH7.00 buffer sachets, power adapter and instructions. Alternatively the meter can be supplied on its own with power adapter and instructions only.

PH615-11	F20-Standard kit
PH615-14	F20-Meter only
PH615-21	FP20-Standard kit
PH615-24	FP20-Meter only

Accessories and Spares

	-
PH611-08 PH611-10	LE409 refillable glass pH electrode LE420 refillable glass pH electrode with adjustable PTFE junction, suitable for waste water, TRIS buffer solutions and oil samples
PH611-16 PH611-24	LE407 robust, gel-filled pH electrode LE501 glass redox electrode
PH611-26	LE422 micro pH electrode with gel electrolyte
CU617-14 CU667-36	Temperature sensor NTC 30kOhm Spare electrode arm





PH615-11

PH615-21 in use

Consumables

Buffer solutions, colour coded

Values stated at 20°C. Temperature data printed on container label. Values are traceable to NIST (NBS) standard reference material. Supplied in standard, plastic, easy-pour containers or in convenient twin-neck bottles which dispense the correct volume of solution for calibration into the secondary neck chamber minimising all waste and the possibility of contamination. Shelf life approximately 2 years. Accuracy ±0.01 pH units.

Easy-pour container

PH750-14	pH4, 1 litre
PH750-19	pH7, 1 litre
PH750-24	pH10, 1 litre

Twin-neck container

PH752-14	pH4, 1 litre
PH752-19	pH7, 1 litre
PH752-24	pH10, 1 litre

Buffer capsules

Each capsule contains enough to make up 100ml of buffer value as indicated. Capsule contents dissolve rapidly. Colour coded. Shelf life indefinite if stored under normal conditions. Accuracy ± 0.02 pH units.

PH758-40	pH4, pack of 50
PH758-44	pH7, pack of 50
PH758-48	pH9, pack of 50
PH758-52	pH10, pack of 50

Filling solutions

PH760-10	4M KCL, 100ml
PH760-13	Saturated KCL, 100ml
PH760-15	4M KCL/AgCL, 100ml

PH765-20	Electrode cleaning solution, 500ml
PH765-30	pH electrode storage solution, 500ml





pH Electrodes



High quality, competitively priced electrodes manufactured under quality controlled conditions as specified under ISO 9002, providing:

Low noise and drift

Enhanced sensitivity

• Fast response

Reliable performance

All electrodes supplied fitted with one metre cable and BNC plug (except reference electrodes which have a 2mm pin and PJ100-14 which has all BNC and phono ATC connectors). A Quality Control Certificate is also supplied.

Cat. No.	Temp. range ℃	Ref. type	Junction type	Body	Length x o.d., mm	Stem L x o.d., mm	Туре	Equivalents	
Combinat	ion Electi	odes, pH	0 to 14						
PJ100-12	0-60	AgCl	Porous PTFE	Ероху	120 x 12	_	General purpose, gel filled	Corning 476086 Orion 9206BN	
PJ100-14	0-100	AgCl	Porous PTFE	Ероху	120 x 12	_	General purpose, built-in ATC, gel filled	Corning 476436 Orion 9207BN	
PJ100-17	0-80	AgCl	Annular ceramic	Glass	120 x 12	_	General purpose, refillable	Corning 476296 Orion 9102BN	
PJ100-22	0-80	AgCl	Frit ceramic	Glass	_	150 x 6	Thin stem, refillable	Corning 476156 Orion 9103BN	
PJ100-27	0-80	AgCl	Frit ceramic	Glass	_	90 x 4.5	Micro stem, refillable	-	
PJ100-32	0-80	AgCl	Annular ceramic	Glass	120 x 12	_	General purpose, robust tip, refillable	Orion 9104BN	
PJ100-42	0-50	HgCl	Annular ceramic	Glass	120 x 12	_	Low ionic strength samples (water), refillable	_	
PJ100-47	0-50	HgCl	Frit ceramic	Glass	_	90 x 6	Tris buffer based biological solutions, refillable	Orion 71-10	
PJ100-49	0-80	AgCl	Porous PTFE	Ероху	120 x 12	_	Flat surface, refillable	-	
PJ100-55	0-80	AgCl	Annular ceramic	Glass	120 x 12	—	Slurry testing, refillable	Orion 9162BN	
Glass Elec	trode, pH	0 to 14							
PJ105-16	0-80	_	—	Glass	120 x 12	—	General purpose half cell	Corning 476026 Orion 9101BN	
Reference	Electrod	es							
PJ108-19	0-50	HgCl	Frit ceramic	Glass (Calomel)	120 x 12	—	General purpose, refillable	Corning 476406	
PJ108-29	0-50	AgCl	Frit ceramic	Glass	120 x 12	—	General purpose, double junction, refillable	Corning 476416	



pH Electrodes, pH Plus

High performance electrodes with non-metallic reference system offering many advantages over conventional electrodes:

- Greater accuracy
- Very fast response
- Greater stability
- Less long-term drift

- More reproducible results
 - Excellent temperature performance over
 - the range 0 to 100°C
 - Compatibility with Tris buffers

All electrodes supplied fitted with one metre cable and BNC plug (except PJ156-19 which has a 2mm pin).

Cat. No.	Junction type	Body	Length x o.d., mm	Stem L x o.d., mm	Туре	
Combinatior	n Electrodes, pH	0 to 14				

PJ145-17	Frit ceramic	Glass	120 x 12	_	General purpose, refillable
PJ145-22	Frit ceramic	Glass	—	150 x 6	Thin stem, refillable
PJ145-27	Frit ceramic	Glass	—	90 x 4.5	Micro stem, refillable
PJ145-32	Annular ceramic	Glass	120 x 12	_	General purpose, robust tip, refillable
PJ145-42	Annular ceramic*	Glass	120 x 12	_	Low ionic strength samples (water), refillable
PJ145-49	Porous PTFE ⁺	Ероху	120 x 12	_	Flat surface, refillable
PJ145-55	Annular ceramic	Glass	120 x 12	_	Slurry testing, refillable
Glass Electro	ode, pH 0 to 14				
PJ152-16	_	Glass	120 x 12	_	General purpose, half cell

_

Reference Electrode

PJ156-19

Annular ceramic* Glass 120 x 12



*Temperature range 0 to 50°C. [†]Temperature range 0 to 90°C.





PJ200

Ion Selective Electrodes

- Combination, no reference electrode needed
- Solid state sensors
- Extended working life

Combination ion selective electrodes with solid state sensors and rugged epoxy bodies. Can be used with any conventional pH meter with a millivolt mode. Overall 120 x 12mm L x o.d. Supplied with 1 metre cable and BNC connector. For ions as indicated.

PJ200-10	Ammonium
PJ200-25	Cadmium
PJ200-30	Calcium
PJ200-35	Chloride
PJ200-50	Fluoride
PJ200-55	Lead
PJ200-65	Nitrate
PJ200-70	Potassium
PJ200-75	Sodium

Pocket Ion Meter, Cardy Na⁺

Horiba

Ultra-slim, pocket ion meter providing convenient, rapid measurement of Sodium ion levels and requiring only a droplet of sample.

- Replaceable flat sensor technology requires minimal maintenance and is easily replaced if required
- Automatic range switching
- LCD readout gives direct concentration reading no conversion calculation required

Catalogue No.		PJ280-10
Model		Cardy Na ⁺
Measurement	ррт	2.3 to 2300 (10 ⁻³ to 10 ⁻¹ mol/l)
Display range	ррт	0 to 9900 x 100
Resolution (all models)	ppm	1 (0 to 99) 10 (100 to 990) 100 (1000 to 9900)
Calibration		2-point using standard calibration solutions (2000ppm and 150ppm) and STD/SLOPE adjustment trimmers
Repeatability		±20% of display value
Sample temp. range	°C	+5 to +35
Power		2 x 3V CR2025 batteries
Overall L x W x D	mm	95 x 55 x 9
Weight	g	40

Pocket Ion Meter, Cardy Na⁺, Horiba

As described. Supplied with calibration solutions (2000ppm and 150ppm), sample dropper, deionised water and sampling "soak tape", instructions and batteries.

PJ280-10 Cardy Na+

Spares

PJ284-03	Spare sensor for PJ280-10
PJ284-06	Spare sensor for discontinued PJ280-20
PJ284-09	Spare sensor for discontinued PJ280-30
BL590-20	Spare battery, 3V (two required)

Pocket Salt Meter, Cardy SALT

Horiba

Ultra-slim, pocket meter for convenient salt testing with applications in the food, industrial and healthcare sectors.

- Flat sensor requires minimal maintenance and is replaceable, only a drop of sample is required for measurement
- Clear LCD readout gives direct NaCl reading
- Does not require pH adjustment or manual conversion from sodium ion measurement
- Excellent correlation with flame photometric method

Catalogue No.		PJ285-40	
Model		Cardy SALT	
Range	%NaCl (w/w)	0.1 to 25	
Resolution %NaCl (wlw)		0.01 (0.1 to 0.99) 0.1 (1.0 to 9.9) 1.0 (10 to 25)	
Calibration		2-point using standard calibration solutions (0.5% and 5% NaCl) and STD/SLOPE adjustment trimmers	
Sample temperature range °C		+5 to +35	
Power		2 x 3V CR2025 batteries	
Overall L x W x D) mm	95 x 55 x 9	
Weight	g	40	

Pocket Salt Meter, Cardy SALT, Horiba

As described. Supplied with calibration solutions (0.5% and 5% NaCl), sample dropper, deionised water and sampling "soak tape", instructions and batteries.

PJ285-40 Cardy SALT

Spares

PJ284-03 Spare sensor for PJ285-40 BL590-20 Spare battery, 3V (two required)





PJ285

pH Meter, Laqua-Twin

Horiba

A convenient, pocket-sized, pH meter for small sample testing in the laboratory or in the field.

- Flat sensor requires minimal maintenance and is replaceable; only a drop of sample (0.1ml minimum) is required for measurement, or the probe can be dipped up to the fill line
- Clear LCD readout indicates measurement, battery level, stability, temperature range warning and calibration reference
- One or two point calibration
- IP67 class protection

Catalogue No.		PJ270-27
Model		pH-22
Range	рН mV	0.00 to 14.00 ±650
Resolution	рН mV	0.01 1
Calibration		1, 2 or 3-point
Accuracy	pН	±0.01
Temperature comp. range	°C	0 to +40
Power		2 x 3V batteries (CR2032 or equivalent) with automatic shut-off after 30 minutes of non-use
Overall L x W x H	тт	164 x 29 x 20
Weight	g	55

pH Meter, Laqua-Twin

As described. Supplied with 14ml standard solution and treatment reagent, sampling dropper, soft storage case, instructions and batteries.

PJ270-27 pH-22

PJ272-06Spare Sensor for PJ270-27BL590-25Spare battery, 3V (2 required)



Pocket Ion Meters, Laqua-Twin

Horiba

A convenient, pocket-sized, range of ion meters for small sample testing of sodium, potassium, nitrate, calcium and salt in the laboratory or in the field.

- Flat sensor requires minimal maintenance and is replaceable; only a drop of sample (0.3ml minimum) is required for measurement, or the probe can be dipped up to the fill line
- Clear LCD readout indicates measurement, battery level, stability, temperature range warning and calibration reference
- One or two point calibration
 IP67 class protection

	PJ280-14	PJ280-24	PJ280-34	PJ280-44	PJ280-54
	Na-11	K-11	NO3-11	Ca-11	Salt-11
	Sodium	Potassium	Nitrate	Calcium	Salt
ppm %	2 to 9900 — —	4 to 9900 — —	6 to 9900 (NO ₃₋) 1.4 to 2200 (NO ₃ -N) —	4 to 9900 — —	0 to 100,000
ppm %	1 (range 0 to 10 (range 100 100 (range 10 —	99) to 990) 00 to 9900) - a 	II models	_	0.01
	±10% of read	ing value — al	l models		±20% of reading value
	1 or 2 point (s	electable) — a	all models		
°C	0 to +40 — al	l models			
	2 x 3V batteri minutes of no	es (CR2032 or o on-use — all mo	equivalent) with auto odels	omatic shut-off a	after 30
mm	164 x 29 x 20	— all models			
g	55 — all mode	els			
	ppm % ppm % °C <u>mm</u> g	PJ280-14 Na-11 Sodium ppm 2 to 9900	PJ280-14 PJ280-24 Na-11 K-11 Sodium Potassium ppm 2 to 9900 4 to 9900 % — — % — — % — — ppm 1 (range 0 to 99) 10 (range 1000 to 9900) - a 100 (range 1000 to 9900) - a — *10% of reading value — al 1 or 2 point (selectable) — a °C 0 to +40 — all models 2 x 3V batteries (CR2032 or minutes of non-use — all models mm 164 x 29 x 20 — all models g 55 — all models	PJ280-14 PJ280-24 PJ280-34 Na-11 K-11 NO3-11 Sodium Potassium Nitrate ppm 2 to 9900 4 to 9900 6 to 9900 (NO ₃ .)	PJ280-14 PJ280-24 PJ280-34 PJ280-44 Na-11 K-11 NO3-11 Ca-11 Sodium Potassium Nitrate Calcium ppm 2 to 9900 4 to 9900 6 to 9900 (NO ₃ .) 4 to 9900

Pocket Ion Meters, Laqua-Twin

As described. Supplied with 14ml standard solution and treatment reagent, sampling dropper, soft carry case, instructions and batteries.

 PJ280-14
 Na-11

 PJ280-24
 K-11

 PJ280-34
 NO3-11

 PJ280-44
 Ca-11

 PJ280-54
 Salt-11

Spares

PJ284-12	Spare sensor for PJ280-14
PJ284-22	Spare sensor for PJ280-24
PJ284-32	Spare sensor for PJ280-34
PJ284-42	Spare sensor for PJ280-44
PJ284-52	Spare sensor for PJ280-54
BL590-25	Spare battery, 3V (2 required)





Bench pH Meters, LAQUA F-series

Horiba

High specification range of benchtop pH/mV or ion meters for routine laboratory measurements.

- Choice of models:
 - F-71: single channel pH/ORP meter with large, backlit monochrome, custom LCD, 999 reading memory and membrane keypad operation
 - F-72: single channel pH/ORP/Ion meter with touchscreen operation, digital graphical or analogue display output selectable, colour LCD readout, analogue USB printer/PC and flash memory external outputs, 2000 reading memory and easy menu navigation. Multi-language display in Japanese, English, Chinese and Korean
 - F-73: generally as F-72 but with two channel inputs allowing two readings or separate tests to be run and displayed simultaneously
- Simultaneous reading and temperature display

Catalogue No.		PJ290-10	PJ290-15	PJ290-25
Model		F-71	F-72	F-73
Parameters	Channel 1 Channel 2	pH, ORP —	pH, ORP, Ion —	pH, ORP, Ion pH, ORP, Ion
Ranges (resolution)	pH mV (ORP) Ion conc. °C	0 to 14.000 (0.001) -1999.9 to +1999.9 (0. 	0 to 14.000 (0.01/0.001) - 1) — all models 0.00mg/l to 999g/l (3 dig odels	— both models its) — both models
Accuracy	pH mV (ORP) Ion conc. °C	±0.005 ±1 digit ±0.1 ±1 digit — all m ±0.1 ±1 digit — all m	±0.001 ±1 digit odels ±0.5% ±1 digit of full sca odels	±0.005 ±1 digit ale — both models
Temp. compensa	tion °C	0 to 100.0 — all mode	els	
Autocalibration	рН Ion conc.	1 point	up to 5 point — both mo up to 5 point — both mo	odels odels
Outputs		USB, RS232 printer	Analogue output, USB a flash drive memory expa	nd RS232 printer/PC, USB nsion ports — both models
Memory		999 readings	2000 readings — both m	odels
Overall W x	D x H mm	170 x 174 x 73 — all r	nodels	
Weight	kg	0.5	0.7 — both models	



pH Meters, LAQUA F-series, Horiba

As described. Supplied with swing-arm probe holder, stand and a.c. adapter for 100-240V 50/60Hz single phase supplies. Without probes.

PJ290-10 F-71 PJ290-15 F-72 PJ290-25 F-73

Accessories

PJ294-08 3-in-1 pH electrode, plastic bodied, waterproof

ToupH electrodes

Robustly constructed, toughened glass, 3-in-1 electrodes with rapid response membrane and increased stability reference system. Waterproof.

	Sample type	Operating range, °C	L x dia. mm
PJ294-12	General purpose	0 to 100	115 x 23
PJ294-16	High viscosity	0 to 60	120 x 8
PJ294-22	Micro, >50 l	0 to 60	102 x 3
PJ294-24	Deep	0 to 100	200 x 7
CU662-81	USB cable to connect meter to the user's PC		
CU662-83	Impact printer, 230V 50/60Hz. Requires CU662-89 for connection to meter		
CU662-86	Printer paper rolls, pack of 20		
CU662-88	Ink ribbons, pack of 5		
CU662-89	Printer cable to connect CU662-83 to		

9 Printer cable to connect CU662-83 to meters. 1.5m long

PJ290 with PJ294-08

Hand-held pH Testers 206-Series



Convenient, hand-held meters with innovative, replaceable probe system which resists clogging by replacement of the conventional microporous membrane with a hole diaphragm and solid gel electrolyte. Low membrane resistance also results in fast, accurate readings.

- Choice of models:
 206-pH1 for liquids
 - quids 206-pH2 for semi-solids
- Generous electrolyte volume provides extended life
- Maintenance-free
- Dual display (pH and °C)
- Almost unbreakable probe design
- 1, 2 or 3-point calibration
- Built-in temperature probe
- Includes IP68 "TopSafe" protection case
- Leakproof, KCL gel-filled, probe storage cap

Specification for both models

Range	pH ℃	0 to 14.00 0 to 60
Resolution	рН °С	0.01 0.1
Accuracy	pH ℃	±0.02 ±0.4
Temp. comp.	°C	Automatic over full range
Auto calibration		1 to 3 point (pH4.0, pH7.00 and pH10.1 recognised)
Display		Twin-line LCD, simultaneous pH and °C readout
Power		1 x 3V CR2032 battery
Overall L x W x D	mm	197 x 33 x 20
Weight	g	69

As described. Supplied with probe module, "TopSafe" protection case, storage cap with KCL gel storage medium, belt clip/wall-mounting holster and battery.

 PJ335-10
 Testo 206-pH1

 PJ335-20
 Testo 206-pH2

Accessories and Spares

PJ337-04	Spare probe for PJ335-10 only with gel storage cap
PJ337-08	Spare probe for PJ335-20 only with gel storage cap
BL590-25	Spare battery, 3V

Food Testing pH Meter



- Ergonomic design for ease of use
- Penetration probe with built-in combination electrode and temperature probe, in an almost unbreakable housing
- Maintenance-free, gel electrolyte
- Back-lit, dual LCD readout of all pH and temperature
- Automatic reading stability detection
- 1, 2 or 3-point calibration
- Leakproof, KCL gel-filled, probe storage cap
- IP65 housing

Specification

Range	pH ℃	0 to 14.00 0 to 60
Resolution	рН °С	0.01 0.1
Accuracy	рН °С	±0.02 ±0.4
Temp. comp.	°C	Automatic over full range
Auto calibration		1 to 3 point (pH4.0, pH7.00 and pH10.1 recognised
Display		Twin-line LCD, simultaneous pH and °C readout
Power		4 x 1.4V LR44 batteries
Overall L x W x D mm		197 x 33 x 168
Weight	g	69

As described. Supplied with probe module, storage cap with KCL gel storage medium, wall-mounting holder and batteries.

PJ342-15 Testo 205

Accessories and Spares

PJ342-40	Spare probe for PJ342-15 with gel
	storage cap
PJ342-45	Spare gel storage cap
BL610-04	1.4V battery (4 required)





PJ342-15

Portable pH meters 550 and 570

Jenway°

- Choice of models:
 - Model 550: simultaneous pH/temperature LCD readout with splashproof (IP65-rated) housing
 Model 570: simultaneous pH or mV and temperature LCD readout with battery indicator and waterproof (IP66-minimum rated) housing
- Manual or automatic temperature compensation
- Automatic, two-point pH calibration with automatic buffer recognition
- Auto shut-off after 10 minutes of inactivity to conserve battery life

Catalogue No.		PJ360-40	PJ360-70	
Model		550	570	
Ranges (resolution)	pH mV ℃	0 to 14.00 x 0.01 - 0 to 100.0 x 0.1	-2.00 to 16.00 x 0.01 -1000 to +1000 x 1 -39.9 to 149.9 x 0.1	
Accuracy	pH mV ℃	±0.05 - ±0.5	±0.02 ±1 ±0.4 (between -10 and +70°C)	
ATC range		0 to 60°C	0 to 100°C	
Calibration		2 point on standard solutions with automatic buffer recognition		
Inputs		BNC and 3.5mm jack	BNC/Lumberg screwlock	
Power		3 x 1.5V AAA batteries – both models		
Dimensions L x W x D	mm	141 x 56 x 25	141 x 71 x 32	
Weight	kg	0.13	0.23	

Portable pH meters 550, 570, Jenway

As described. Supplied with epoxy-bodied, gelfilled pH electrode, ATC probe, 3 x 1.5V batteries, 1 each pH4, pH7 and pH10 buffer sachets, carrying case and instructions.

 PJ360-40
 Model 550 with case

 PJ360-70
 Model 570 with case

Spares and Accessories

PJ364-08	Spare combination pH electrode, epoxy bodied, gel filled
PJ364-15	Spare temperature/ATC probe for PJ360-40 only
PJ364-17	Spare temperature/ATC probe for PJ360-70 only
BL610-08	Spare battery, 1.5V (3 required)







Ion Selective Electrode Kits

Ion Selective Electrode Kits

Comprise maintenance free ISE electrode, one 500ml bottle of 1000ppm calibration standard, one 500ml bottle of ionic strength adjustment buffer and S7 screw fitting to BNC lead. For ion determination as indicated.

 PJ379-05
 Ammonium

 PJ379-09
 Calcium

 PJ379-13
 Chloride

 PJ379-17
 Fluoride

 PJ379-21
 Nitrate



Bench Meters 3500 series

Jenway

Two, easy to use, bench meters covering basic, routine or research laboratory requirements.

Model		3510	3520
Range	pH mV ℃ (°F)	-2 to +19.999 -1999 to +1999 -10 to +105 (+14 to +221)	-2 to +20.000 -1999 to +1999 -10 to +105 (+14 to +221)
Resolution	pH mV ℃ (°F)	0.001/0.01/0.1 0.1 0.1 (1)	0.001/0.01/0.1 0.1/1 0.1 (1)
Accuracy	pH mV ℃ (°F)	±0.003 ±0.2 ±0.5 (±1)	±0.003 ±0.2 ±0.5 (±1)
Temperature comp		0 to 100°C, manual or automatic –	– all models
Input impedance	ohms	>10 ¹²	>1012
Calibration		1 or 2 point Manual or ATC buffers to DIN19266, JIS Z8802 and NIST	1, 2 or 3 point Manual or ATC buffers to DIN19266, JIS Z8802 and NIST
Outputs		Analogue recorder – buffered electrode output Bi-directional RS232	Analogue recorder – buffered electrode output Bi-directional RS232 Infra-red data link (IrDA)
Alarm Points		—	-2.000 to +20.000
Memories		32 readings	500 readings
Display Custom		Custom back-lit LCD	Back-lit graphics LCD
Power		9V a.c. adapter — all models	
Overall H x W x D	mm	55 x 210 x 250	55 x 210 x 250
Weight	kg	0.85	0.85



pH Meter, bench, Model 3510

As described. Routine model with push-button controls, simultaneous pH or mV and temperature readout and 1, 2 or 3 point calibration. Supplied with glass bodied pH combination electrode, separate ATC probe, swing arm electrode holder, RS232 interface, instruction manual, pH4, pH7 and pH10 buffers and an a.c. adapter requiring a 230V 50/60Hz supply.

PJ500-22 Model 3510

pH Meter, bench, Model 3520

As described. Research model with push-button controls, simultaneous pH or mV and temperature readout, real time clock, GLP support functions, alarm outputs, multi-language operation and 1, 2 or 3 point calibration. Supplied with glass bodied combination pH electrode, separate ATC probe, swing-arm electrode holder, RS232 interface, infrared data link (IrDA), instruction manual, pH4, pH7 and pH10 buffers and an a.c. adapter requiring a 230V 50/60Hz supply.

PJ550-40 Model 3520

Spares and Accessories

Combination electrodes		
PJ364-08	Epoxy bodied	
PJ554-08	Glass bodied	
PJ554-19	ATC probe, for all models	
PJ554-70	9V a.c. adapter with UK connector. Requires a 230V mains supply	

IrDA or serial connection printer. Supplied with one roll of thermal paper, serial connection lead, power supply and power connection lead*.

CU656-25 Printer

CU656-27 Thermal paper roll, supplied singly *Not suitable for use with Model 3505.

DataWay data acquisition software for downloading data from instruments onto the users' PC. **CU656-54** Software

PJ550-40 in use, PJ500-22 is similar

Halo[™] Bluetooth[®] Electrode

ANNAH

A cordless, precision, double junction, refillable glass pH electrode with builtin temperature sensor suitable for use with Apple® iPad® or iPhone® products running iOS7.1 or later, Android[™] tablets or phones and Bluetooth 4.0 technology, using a Hanna Lab App available free via the iTunes® or Google Play App stores.

- Ranges: pH0.00 to 13.00 and -5 to +80°C
- Maximum usable distance from meter: 10 metres
- Approximately 500 hours battery life
- Integral temperature sensor ensures automatic temperature compensation
- Calibration information is stored within the electrode, no recalibration is necessary when switching to another device
- ◆ The Hanna Lab App displays the name, battery life and condition of the Halo[™] probe and complies with GLP requirements
- Measurement and logging at 1 second intervals commences, and a blue LED illuminates on the electrode, as soon as the probe is connected

Halo[™] Bluetooth[®] pH Electrode

As described. Probe dimensions 195 x 12mm overall length x stem diameter. Supplied with storage solution, cleaning solution, buffers, filling solution and 3V CR2032 button cell battery.

PJ805-10 Halo[™] Bluetooth[®] pH Electrode **BL590-25** Spare 3V battery

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Google is a registered trademark of Google Inc.



Dip pH Sensors

Simple to use dip sensors for routine pH measurements.

- Digital display
- Waterproof and float readily in water
- Automatic 1 or 2 point push button calibration
- Replaceable electrode with non-clogging fibre reference junction
- Automatic temperature compensation

Model		HI-98127	HI-98128
Ranges x resolution	рН °С	-2 to 16.0 x 0.1 -5 to 60.0 x 0.1	-2 to 16.00 x 0.01 -5 to 60.0 x 0.1
Accuracy	pН	±0.1	±0.05
Calibration		Automatic 1 or 2 10.01 buffers rec	point, (pH4.01, 6.86, 7.01, 9.18, ognised) — all models
Temp. comp.	°C	Automatic, 0 to 60 — all models	
Power		4 x 1.4V cells (Duracell MP675H or equivalent)	
Overall L x W x H	mm	163 x 40 x 26 —	both models

Dip pH Sensors

As described. With electrode and batteries.

PJ820-14	HI-98127
PJ820-18	HI-98128
BL610-04	Spare battery 1.4V (4 required)

Dip pH Tester, Checker 1

A low cost, advanced pH tester with replaceable electrode. Range pH0.00 to 14.00 with 0.01pH resolution and \pm 0.2pH accuracy. Two point calibration at pH4/10 and pH7 using offset and slope screw trimmers. Powered by 2 x 1.4V (Duracell MP675H or equivalent) batteries giving up to 3000 hours operation. Supplied with screw-in general purpose combination electrode and batteries.

PJ820-75 Checker 1

Spares

PJ822-25Electrode, for use with PJ820-75, screw in typeBL610-04Spare battery 1.4V (4 required)

Hand-Held pH/Ion Meter

High performance, hand-held meter for pH, mV or °C measurement.

- Microprocessor controlled
- Automatic or manual temperature compensation
- Automatic calibration with buffer recognition
- Membrane keypad
- 0.1mV resolution in ISE mode

Model		HI-8424
Range, (resolution) m\ mV	рН / (ISE) (ORP) °С	-2.00 to 16.00 (0.01) -699.9 to 699.9 (0.1) -1999 to 1999 (1) -20.0 to 120.0 (0.1)
Accuracy	pH mV ℃	±0.01 ±0.2 (ISE), ±1 (ORP) ±0.4
Calibration		Automatic 2 point, pH4.01, 7.01, 10.01 buffers recognised
Temp. compensation	°C	Automatic or manual -20 to 120
Input impedance		10 ¹²
Power		1 x 9V PP3 alkaline battery
Overall L x W x D	mm	164 x 76 x 45 (meter only)

Hand-Held pH/Ion Meter HI-8424

As described, with plastic bodied, gel filled, double junction pH electrode and temperature probe, all with 1 metre cables and 9V battery. **PJ840-10** HI-8424

Spares and accessories

PJ843-12	Temperature probe
PJ857-05	pH electrode
PJ857-25	ORP electrode
PJ857-27	Storage solution for ORP electrode, pack of 500ml
BL610-25	9V battery



PJ820-14 to PJ820-18



PJ820-75 in use



PJ840-10

Tablet pH Meter, edge[®] pH ANNAH

Thin, lightweight, "tablet" format, pH meter for portable or benchtop applications.

- Large, high-resolution, LCD readout with wide, 150° viewing angle
- Includes bench charging dock with electrode holder and wall mount ٠
- USB output port for exporting data to a flash drive and separate micro USB ٠ port for downloading data to the user's computer and charging the meter
- Capacitive touch keypad ٠
- Uses digital pH electrodes which the meter automatically recognises with 4 1 metre cable and simple, 3.5mm plug connection
- Built-in CAL Check™ software monitors the calibration process, including ٠ buffer and electrode condition to warn the user of potential issues that could affect performance

Model	edge [®] pH (HI2002-02)
Range pH* (resolution) mV (pH) mV (ORP) °C (°F selectable)	-2.00 to 16.00 or -2.000 to 16.000 (0.01 or 0.001) -1000 to +1000 (0.1) -2000 to +2000 (0.1) -20.0 to +120.0 (0.1)
Accuracy pH* (at 25°C) mV (pH) mV (ORP) °C (°F selectable)	± 0.01 or ± 0.002 ± 0.20 ± 0.20 up to ± 999.9 mV, ± 1.00 (rest of range) ± 0.5
Calibration	Automatic 1, 2 or 3 point, pH4.01, 6.86, 7.01, 9.18, 10.01 buffers recognised
Temp. compensation °C	Automatic or manual, -5.0 to 100.0
Datalogging	Up to 1000 records; max. 200 x log-on-demand, 200 x log-on-stability and 600 x samples; 100 lots
Power	USB 5V d.c. mains adapter
Overall H x W x D mm	202 x 140 x 12
Weight kg	0.25

* Subject to probe limits

Tablet pH meter, edge® pH

As described. Supplied with glass-bodied, combination pH/°C, digital electrode with 1 metre cable, pH4.01, pH7.01 and pH10.01 buffer solutions, electrode cleaning solution, benchtop charging dock stand with electrode holder, wallmount cradle, USB cable, instruction manual and a.c. adapter requiring a 230V 50/60Hz supply.

PJ858-10 edge[®] pH meter

Spares and accessories

Spares and	acce
PJ858-80	Spar
P1858-85	Glas

re, glass-bodied, pH/°C digital electrode for PJ858-10 Glass-bodied ORP/°C electrode PJ858-85



PJ858-10 in use

Bench Meters HI-2210, HI-2211 ANNAH

- Microprocessor controlled ٠
- Automatic or manual temperature compensation ٠
- Automatic 2 point calibration with buffer recognition ٠
- ٠ Simultaneous display of pH (or mV - HI2211) and temperature
- Large LCD readout ٠
- Result memory with recall

Model		HI-2210	HI-2211
Range (resolution)	pH mV (ISE) mV (ORP) ℃	-2.00 to 16.00 (0.01) 	-2.00 to 16.00 (0.01) ±399.9 (0.1) ±2000 (1) -9.9 to 120.0 (0.1)
Accuracy	pH mV (ISE) mV (ORP) ℃	±0.01 — ±0.5	±0.01 ±0.2 ±1 ±0.5
Calibration		Automatic 1 or 2 poir 9.18, 10.01 buffers re	ıt, pH4.01, 6.86, 7.01, cognised – both models
Temp. compensation °C		Automatic or manual both models	, -9.9 to 120 –
Input impedar	nce	10 ¹² – both models	
Power		12V d.c. mains adapte	er – both models
Overall L x W	x D mm	235 x 222 x 109 – bot	h models

Bench meters, HI-2210, HI-2211

As described. Supplied with glass bodied, combination pH electrode and temperature probe, all with 1 metre cables, electrode holder, pH4.01 and 7.01 buffer solutions in 20ml bottles, electrode filling solution, instructions and 12V d.c. mains adapter. A 230V 50/60Hz supply is required for the adapter.

PJ860-47 HI-2210 PJ860-51 HI-2211

Spares and accessories

Glass bodied electrode
Temperature probe
ORP electrode



PJ860-47 in use, PJ860-51 is similar

Bench Multiparameter Meters, HI-5521, HI-5522

ANNAH

- Dual channel models measuring pH, mV, conductivity, TDS, resistivity and salinity (HI5522 also measures ISE), with separate temperature input
- Up to 5 calibration points with standard or custom buffers selectable
- Capacitive touch keypad and large dot matrix colour LCD readout
- USB output
- GLP data features include logged graphical data output, calibration data, ID, date and time
- ◆ Cal Check™ feature monitors readings, electrode and buffer performance and warns if out of range

Model		HI-5521	HI-5522
Range (resolution)	pH mV EC	-2.00 to 20.0 ±2000.0 (0.1 0.000 to 9.9 1.000 to 9.9	0 or -2.00 to 20.00 (0.1; 0.01; 0.001) — both models) — both models 99µS (0.001), 10 to 99.99µS (0.01), 100 to 999.9µS (0.1), 99mS (0.001), 10.00 to 99.99mS (0.01), 100.0 to 1000.0mS (0.1)
	TDS	- Doth mot 0.000 to 9.99 1.000 to 9.99	1995 1995 (0.001), 10 to 99.995 (0.01), 100 to 999.95 (0.1), 1995 (0.001), 10.00 to 99.95 (0.01), 100.0 to 400.05 (0.1) 1995 (0.001), 10.00 to 99.95 (0.01), 100.0 to 400.05 (0.1)
	resistivity	1.0 to 99.90 99.9kohm/cr	hm/cm, 100 to 999ohm/cm, 1.00 to 9.99kohm/cm, 10.0 to n, 100 to 999kohm/cm, 1.00 to 9.99Mohm/cm, 10.0 to (m — both models
	salinity	Practical sca % scale: 0.0	le: 0.00 to 42.00psu; natural sea water scale: 0.00 to 80.00ppt; to 400.0% NaCl — both models
	conc. °C	 -20.0 to +12	1 x 10 ⁻⁷ to 9.99 x 10 ¹⁰ (1; 0.1; 0.01; 0.001) 0.0 (0.1) — both models (°F, °K selectable)
Accuracy	pH mV EC TDS resistivity salinity	± 0.1 ; 0.01; 0 $\pm 0.02 \pm 1 \text{ sig}$ $\pm 1\%$ of reac $\pm 1\%$ of reac $\pm 2\%$ of reac $\pm 1\%$ of reac	.002; ±1 sig. digit — both models nificant digit — both models ling (±0.01µS) — both models ling (±0.01ppm) — both models ling (±10hm/cm) — both models
	conc. °C	±0.2	±0.5% (mono-) ±1% (di-) ±1.0% (trivalent ions) ±0.2
Calibration (automatic)	pH EC salinity ISE	Up to 5 poir 9.18, 10.01, Automatic s % scale-one —	ts with 8 memorised buffers (pH 1.68, 3.00, 4.01, 6.86, 7.01, 12.45) + 5 custom values — both models tandard recognition — both models point — both models Up to 5 points, 0.1, 1, 10, 100, 1000 conc. + 5 custom values
Temp. compe	nsation °C	Automatic c	r manual, from -20.0 to +120.0°C — both models
Data logger		Up to 100,00	00 data point storage per channel — both models
Output		Opto-isolate	d USB — both models
Power		12V d.c. mai	ns adapter — both models
Overall L x W	xH mm	231 x 160 x	94 — both models
Weight	kg	1.2 — both	models





PJ868-57 in use

Bench multiparameter meters, HI-5521, HI-5522

As described. Supplied complete with pH electrode, EC/TDS probe (0.0500 to 200.0 cell constant), temperature probe, pH4 and pH7 buffer solutions, electrode holder, instructions and 12V d.c. mains adapter. A 230V 50/60Hz supply is required for the adapter.

PJ868-17	HI-5521, complete
PJ868-57	HI-5522, complete

Spares and accessories

PJ862-08	Spare glass bodied electrode
PJ862-22	Spare temperature probe
PJ862-24	Spare EC/TDS probe
PJ857-34	Data transfer software

По вопросам продаж и поддержки обращайтесь:

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