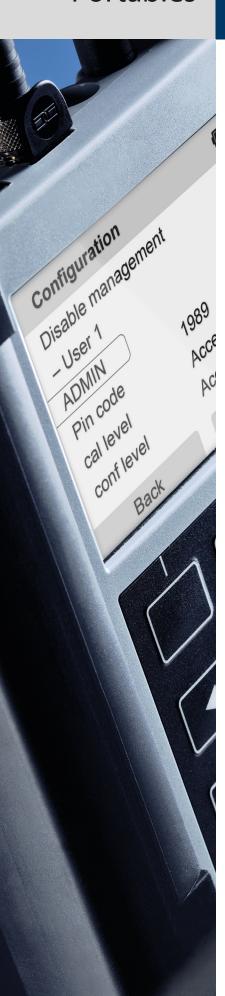
Portables



Portavo 908 Multi

Portable multiparameter analyzer for the pharmaceutical and biotechnology industries.

Portavo 908 Multi is the first portable Memosens-based measuring device for liquid analysis with direct printer control. A printer can be connected directly to the micro USB interface to print the calibration record (GLP compliant).

Many new features distinguish the Portavo 908 Multi for use in the pharmaceutical and biotech fields. These include

- new pH calibration procedure with a set process flow
- multi-level user management with access control
- direct assignment of Memosens sensors to device, for increased safety during operation

Custom pH Calibration

Cal SOP

The new Cal SOP calibration procedure allows pH sensors to be checked with up to 3 calibration points. A further buffer is used as the verification buffer. The buffer set for each calibration point can be separately selected, thus also allowing their order to be determined.

Custom buffer solutions can be used, or choose from a list of commercially available buffer sets, e.g., CaliMat, NIST, and DIN.
A maximum permissible deviation (Delta pH) is entered for the verification buffer.

Security Package Included

User management

The Portavo 908 Multi's professional user management regulates access to the device and the sensor.

- Increased security for configuration, calibration, and measurement data
- No unauthorized interventions during the operating cycle
- Up to 4 user profiles can be set
- Different access rights can be established

Depending on the user's experience, the role profile can optionally be defined for configuration of the device and sensor or for sensor calibration. This clearly minimizes the risk of inadvertently changing settings.

Greater Reliability During Operation

Memosens sensors can be assigned directly to the Portavo 908 Multi using the data stored in the sensor, such as Sensor type

TAG

Group

Unambiguous assignment of the sensor to the device reduces the potential for errors. This ensures that only the right sensors are used for the selected measuring point.

Multi-Channel Function for Simultaneous Operation of 2 Sensors

If equipped with the multi-channel option, Portavo 908 Multi can be used for simultaneous measurements using 2 flexibly combined sensors. The multi-channel function is added to the functionality of the data logger.



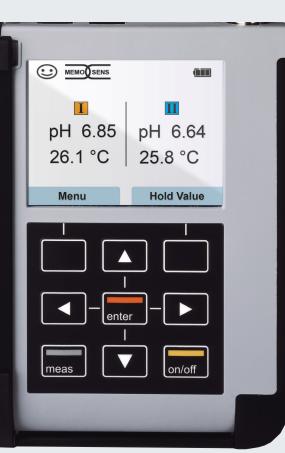
Facts and Features

- Multiparameter: рΗ
 - **ORP**

Contacting conductivity Toroidal conductivity

Amperometric oxygen

- Optical oxygen Temperature
- Multi-channel function
- GLP compliant
- Direct printer control
- User management
- pH calibration with set process flow
- Digital Memosens sensors
- Concentration measurement with toroidal conductivity sensors
- Sturdy, practical, convenient
- Li-ion rechargeable battery
 - USB chargeable







Calibration Record Date

Device Information Manufacturer Serial No.

Type SW Version

Sensor Information Sensor Type Manufacturer Order No. Serial No. Software Ver. Hardware Ver.

TAG Temp. Offset Operating Time Wear SIP

Calibration Data Calibration Date Zero Point Slope Buffer 1 Buffer 2

26.11.2015 11:41

Knick 0003792 908 Multi 1.5.0.Build 10904

Memosens pH Knick SE 555X/1-NMSN 2180694 1.0.6 1.5.2 ABC 13.11.12_wo 0.0 K 50 h 0 % Memosens

14.06.15 pH 7.201 99.154 % pH 4.005 pH 6.996 14:48 | 11.8 mV | 58.7 mV





Portables

Specifications	
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Connections	2 x socket Ø 4 mm for separat		
	1 x M8 socket, 4-pin, for flexible Memosens laboratory cable		
	1 x micro USB-B for data transmission to PC or for connecting a printer		
	1 x M12 socket, 8-pin, for flexible connecting cable for Memosens sensors or SE 340 sensor (optical oxygen)		
Air pressure measurement	700 1100 hPa		
Device operation		with graphic symbols and d	etailed user hints in plain text
Languages	German, English, French, Spar		etailea aser riirts in plain text
Sensoface	Status display (friendly, neutra		
Status indicators	For battery condition, logger	ui, suu,	
Graphic display	QVGA TFT display with white	hacklighting	
Keypad	[on/off], [meas], [enter], [◀],		
Кеурац	2 softkeys with context-dependent		
Data logger	Space for 10,000 entries	nacht assignment	
Recording		atrollod with management of	of tag numbers and annotations
MemoLog calibration data logge			itag numbers and annotations
	·		Scuito or Paraly SW 112 (USP)
(Memosens only)	Recording	•	Suite or Paraly SW 112 (USB)
	Can be shown on the display	calibration date	seriai no., zero point, siope,
Temperature input	2 x Ø 4 mm for integrated or s	separate temperature probe	
	Measuring ranges	NTC 30 kΩ	-20 120 °C / -4 248 °F
		Pt1000	-40 250 °C / -40 482 °F
	Measuring cycle	Approx. 1 s	
	Measurement error ^{1,2,3)}	< 0.2 K (Tamb = 23 °C / 73.4	l °F); TC < 25 ppm/K
Communication	USB 2.0		
	Profile HID, driverless installation		
	Profile	HID, driverless installation	
	Profile Usage	•	ation via the Paraly SW 112 soft-
Diagnostic functions		Data transfer and configura	ation via the Paraly SW 112 soft-
Diagnostic functions Sensor data (Memosens only)	Usage	Data transfer and configura ware	·
	Manufacturer, sensor type, se mum temperature, adaptive of	Data transfer and configura ware rial number, wear, operating	time, remaining lifetime, maxi-
Sensor data (Memosens only)	Manufacturer, sensor type, se mum temperature, adaptive of autoclaving counter	Data transfer and configura ware rial number, wear, operating calibration timer, calibration	time, remaining lifetime, maxi- and adjustment data, SIP, CIP, and
Sensor data (Memosens only) Calibration data	Manufacturer, sensor type, se mum temperature, adaptive of autoclaving counter Calibration date; pH/Oxy: Zero	Data transfer and configura ware rial number, wear, operating calibration timer, calibration o point, slope; Cond: Cell con	time, remaining lifetime, maxi- and adjustment data, SIP, CIP, and
Sensor data (Memosens only) Calibration data Device self-test	Manufacturer, sensor type, se mum temperature, adaptive of autoclaving counter Calibration date; pH/Oxy: Zero Automatic memory test (FLAS	Data transfer and configura ware rial number, wear, operating calibration timer, calibration o point, slope; Cond: Cell conditions, EEPROM, RAM)	time, remaining lifetime, maxi- and adjustment data, SIP, CIP, and
Sensor data (Memosens only) Calibration data Device self-test Device data	Manufacturer, sensor type, se mum temperature, adaptive of autoclaving counter Calibration date; pH/Oxy: Zero Automatic memory test (FLAS Device type, software version	Data transfer and configura ware rial number, wear, operating calibration timer, calibration o point, slope; Cond: Cell con SH, EEPROM, RAM) , hardware version	time, remaining lifetime, maxi- and adjustment data, SIP, CIP, and
Sensor data (Memosens only) Calibration data Device self-test Device data Data retention	Manufacturer, sensor type, se mum temperature, adaptive of autoclaving counter Calibration date; pH/Oxy: Zero Automatic memory test (FLAS Device type, software version Parameters, calibration data	Data transfer and configura ware rial number, wear, operating calibration timer, calibration o point, slope; Cond: Cell con SH, EEPROM, RAM) , hardware version > 10 years	time, remaining lifetime, maxi- and adjustment data, SIP, CIP, and
Sensor data (Memosens only) Calibration data Device self-test Device data Data retention	Manufacturer, sensor type, se mum temperature, adaptive of autoclaving counter Calibration date; pH/Oxy: Zero Automatic memory test (FLAS Device type, software version Parameters, calibration data EN 61326-1 (General requiren	Data transfer and configuration ware rial number, wear, operating calibration timer, calibration o point, slope; Cond: Cell const., EEPROM, RAM) , hardware version > 10 years nents)	time, remaining lifetime, maxi- and adjustment data, SIP, CIP, and
Sensor data (Memosens only) Calibration data Device self-test Device data Data retention	Manufacturer, sensor type, se mum temperature, adaptive of autoclaving counter Calibration date; pH/Oxy: Zero Automatic memory test (FLAST Device type, software version Parameters, calibration data EN 61326-1 (General requirent Emitted interference	Data transfer and configura ware rial number, wear, operating calibration timer, calibration o point, slope; Cond: Cell conditions o point, slope; Cond: Cell conditions hardware version > 10 years nents) Class B (residential)	time, remaining lifetime, maxi- and adjustment data, SIP, CIP, and
Sensor data (Memosens only) Calibration data Device self-test Device data Data retention	Manufacturer, sensor type, se mum temperature, adaptive of autoclaving counter Calibration date; pH/Oxy: Zero Automatic memory test (FLAST Device type, software version Parameters, calibration data EN 61326-1 (General requirem Emitted interference Interference immunity	Data transfer and configura ware rial number, wear, operating calibration timer, calibration o point, slope; Cond: Cell const., EEPROM, RAM) , hardware version > 10 years nents) Class B (residential) Industrial applications	time, remaining lifetime, maxi- and adjustment data, SIP, CIP, and
Sensor data (Memosens only) Calibration data Device self-test Device data Data retention EMC	Manufacturer, sensor type, se mum temperature, adaptive of autoclaving counter Calibration date; pH/Oxy: Zero Automatic memory test (FLAS) Device type, software version Parameters, calibration data EN 61326-1 (General requirent Emitted interference Interference immunity EN 61326-2-3 (Particular requirent	Data transfer and configurations ware rial number, wear, operating calibration timer, calibration opoint, slope; Cond: Cell const., EEPROM, RAM), hardware version > 10 years nents) Class B (residential) Industrial applications irements for transducers)	time, remaining lifetime, maxi- and adjustment data, SIP, CIP, and
Sensor data (Memosens only) Calibration data Device self-test Device data Data retention EMC RoHS conformity	Manufacturer, sensor type, se mum temperature, adaptive of autoclaving counter Calibration date; pH/Oxy: Zero Automatic memory test (FLAS) Device type, software version Parameters, calibration data EN 61326-1 (General requirent Emitted interference Interference immunity EN 61326-2-3 (Particular requirent According to Directive 2011/6	Data transfer and configurations ware rial number, wear, operating calibration timer, calibration opoint, slope; Cond: Cell const., EEPROM, RAM), hardware version > 10 years ments) Class B (residential) Industrial applications irements for transducers)	time, remaining lifetime, maxi- and adjustment data, SIP, CIP, and
Sensor data (Memosens only) Calibration data Device self-test Device data Data retention EMC RoHS conformity	Manufacturer, sensor type, se mum temperature, adaptive of autoclaving counter Calibration date; pH/Oxy: Zero Automatic memory test (FLAS) Device type, software version Parameters, calibration data EN 61326-1 (General requirent Emitted interference Interference immunity EN 61326-2-3 (Particular requirent	Data transfer and configuration ware rial number, wear, operating calibration timer, calibration opoint, slope; Cond: Cell const., EEPROM, RAM), hardware version > 10 years nents) Class B (residential) Industrial applications irements for transducers) 55/EU eries or	time, remaining lifetime, maxi- and adjustment data, SIP, CIP, and
Sensor data (Memosens only) Calibration data Device self-test Device data Data retention EMC RoHS conformity Power supply	Manufacturer, sensor type, se mum temperature, adaptive of autoclaving counter Calibration date; pH/Oxy: Zero Automatic memory test (FLAST) Device type, software version Parameters, calibration data EN 61326-1 (General requirent Emitted interference Interference immunity EN 61326-2-3 (Particular requirent According to Directive 2011/64 x AA (Mignon) alkaline batter	Data transfer and configuration ware rial number, wear, operating calibration timer, calibration opoint, slope; Cond: Cell const., EEPROM, RAM), hardware version > 10 years nents) Class B (residential) Industrial applications irements for transducers) 55/EU eries or	time, remaining lifetime, maxi- and adjustment data, SIP, CIP, and
Sensor data (Memosens only) Calibration data Device self-test Device data Data retention EMC RoHS conformity Power supply Rated operating conditions	Manufacturer, sensor type, se mum temperature, adaptive of autoclaving counter Calibration date; pH/Oxy: Zero Automatic memory test (FLAST Device type, software version Parameters, calibration data EN 61326-1 (General requirent Emitted interference Interference immunity EN 61326-2-3 (Particular requirent According to Directive 2011/64 x AA (Mignon) alkaline batter 1 x Li-ion rechargeable batter	Data transfer and configuration ware rial number, wear, operating calibration timer, calibration opoint, slope; Cond: Cell const., EEPROM, RAM), hardware version > 10 years nents) Class B (residential) Industrial applications irements for transducers) 55/EU eries or	time, remaining lifetime, maxi- and adjustment data, SIP, CIP, and
Sensor data (Memosens only) Calibration data Device self-test Device data	Manufacturer, sensor type, se mum temperature, adaptive of autoclaving counter Calibration date; pH/Oxy: Zero Automatic memory test (FLAST) Device type, software version Parameters, calibration data EN 61326-1 (General requirent Emitted interference Interference immunity EN 61326-2-3 (Particular requirent According to Directive 2011/64 x AA (Mignon) alkaline batter	Data transfer and configuration ware rial number, wear, operating calibration timer, calibration opoint, slope; Cond: Cell const., EEPROM, RAM), hardware version > 10 years nents) Class B (residential) Industrial applications irements for transducers) 55/EU eries or	time, remaining lifetime, maxi- and adjustment data, SIP, CIP, and



Specifications			
Housing			
Material	PA12 GF30 (silvery gray RAL 7001) + TPE (black)		
Protection	IP 66/67 with pressure compensation		
Dimensions	Approx. 132 x 156 x 30 mm / 5.2 x 6.14 x 1.18 inches		
Weight	Approx. 500 g / 1.10 lbs		
Printer	Printer protocols HP-PCL, Epson, Samsung, IBM (ASCII texts) Connection via standard USB cable and USB adapter (A female to B male)		
Memosens pH input	M8 socket, 4-pin, for flexible <i>l</i>	Memosens laboratory cable, o	or
	M12 socket, 8-pin, for flexible	connecting cable for Memos	sens sensors
	Display ranges ⁴⁾	рН	-2.00 16.00
		mV	-1999 1999 mV
		Temperature	-50 250 °C / -58 482 °F
	Sensor adjustment*)	pH calibration	
	Operating modes*)	Calimatic	Calibration with automatic buffer recognition
		Manual	Manual calibration with entry of individual buffer values
		Data entry	Data entry of zero point and slope
	Calimatic buffer sets*)	-01- Mettler-Toledo	2.00/4.01/7.00/9.21
		-02- Knick CaliMat	2.00/4.00/7.00/9.00/12.00
		-03- Ciba (94)	2.06/4.00/7.00/10.00
		-04- NIST Technical	1.68/4.00/7.00/10.01/12.46
		-05- NIST Standard	1.679/4.006/6.865/9.180
		-06- HACH	4.01/7.00/10.01/12.00
		-07- WTW techn. buffers	2.00/4.01/7.00/10.00
		-08- Hamilton	2.00/4.01/7.00/10.01/12.00
		–09– Reagecon	2.00/4.00/7.00/9.00/12.00
		-10- DIN 19267	1.09/4.65/6.79/9.23/12.75
		–11– Metrohm	4.00/7.00/9.00
		–U1– (User)	Chargeable via Paraly SW 112
	Permissible calibration range		6 8 pH
	· cge	Slope	approx. 74 104 %
		(Sensoface may indicate res	• •
	Calibration timer*)	Interval 1 99 days, can be switched off	
	Sensoface	Provides information on the condition of the sensor	
	Evaluation of	Zero point/slope, response time, calibration interval	
Memosens ORP input	M8 socket, 4-pin, for flexible <i>l</i> M12 socket, 8-pin, for flexible	•	
	Display ranges ⁴⁾	mV	-1999 1999 mV
	Display langes	Temperature	-50 250 °C / -58 482 °F
	Sensor adjustment*)	ORP calibration (zero offset)	
	Permissible calibration range		-700 700 mV

Portables

Specifications

Memosens conductivity	M8 socket, 4-pin, for flexible Memosens laboratory cable, or			
input	M12 socket, 8-pin, for flexible connecting cable for Memosens sensors			
	Measuring range	Sensor SE 615/1-MS	10 μS/cm 20 mS/cm	
	Measuring cycle	Approx. 1 s		
	Temperature compensation	Linear 0 20 %/K, adjus nLF: 0 120 °C/32 248	stable reference temperature °F	
		NaCl (ultrapure water with traces)		
		HCI (ultrapure water with	h traces)	
		NH ₃ (ultrapure water wit	h traces)	
		NaOH (ultrapure water w	vith traces)	
	Display resolution	Conductivity	0.001 μ S/cm (c < 0.05 cm ⁻¹) 0.01 μ S/cm (c = 0.05	
			0.2 cm ⁻¹)	
			$0.1 \mu S/cm (c > 0.2 cm^{-1})$	
		Resistivity	$00.00 \dots 99.99 M\Omega cm$	
		Salinity	0,0 45.0 g/kg (0 30 °C / 32 86 °F)	
		TDS	0 1999 mg/l (10 40 °C / 50 104 °F)	
		Concentration	0.00 100 wt%	
Concentration determination	NaCl	0–26 wt% (0 °C/32 °F) 0–28 wt% (100 °C/212 °F)		
	HCI	0-18 wt% (-20 °C/-4 °F) 0-18 wt% (50 °C/122 °F)		
	NaOH	0-13 wt% (0 °C/32 °F) 0-24 wt% (100 °C/212 °F)		
	H ₂ SO ₄	0-26 wt% (-17 °C/-1.4 °F) 0-37 wt% (110 °C/230 °F)		
	HNO ₃	0-30 wt% (-20 °C/-4 °F) 0-30 wt% (50 °C/122 °F)		
	H ₂ SO ₄	94-99 wt% (-17 °C/-1.4 °F) 89-99 wt% (115 °C/239 °F)		
	HCI	22-39 wt% (-20 °C/-4 °F) 22-39 wt% (50 °C/122 °F)		
	HNO ₃	35-96 wt% (-20 °C/-4 °F) 35-96 wt% (50 °C/122 °F)		
	H ₂ SO ₄	28-88 wt% (-17 °C/-1.4 °F) 39-88 wt% (115 °C/239 °F)		
	NaOH	15-50 wt% (0 °C/32 °F) 35-50 wt% (100 °C/212 °F)		
Sensor adjustment	Cell constant	Input of cell constant with simultaneous display of conductivity value and temperature		
	Solution input	Input of calibration solution conductivity with simultaneous display of cell constant and temperature		
	Auto	Automatic determination of cell constant with KCI or NaCl solution		



Specifications

Memosens amperometric	M8 socket, 4-pin, for flexible Memosens laboratory cable, or			
oxygen input	M12 socket, 8-pin, for flexible connecting cable for Memosens sensors			
	Display ranges ⁴⁾	Saturation	0.000200.0 %	
		Concentration	000 μg/l 20.00 mg/l	
		Partial pressure	0.0 1000 mbar	
	Temperature range ⁴⁾	-20 150 °C / -4 302 °F		
	Sensor adjustment	Automatic calibration in	air (100 % rel. hum.)	
		Zero calibration		
	Storage	In quiver with moisture s	In quiver with moisture sponge	
Optical oxygen input	M12 socket, 8-pin			
	OXY measuring ranges	Saturation	0.000 200.0 %	
	at 20 °C / 68 °F	Concentration	000 μg/l 20.00 mg/l	
		Partial pressure	0.0 1000 mbar	
	Response time	t90 < 30 s	t99 < 60 s	
	Measurement error ^{1,2,3)}	Zero signal < 0.1 % of final saturation value		
	Temperature range ⁴⁾	0 50 °C / 32 122 °F		
	Measurement error ^{1,2,3)}	Temperature ± 0.2 K		
	Sensor adjustment	Automatic calibration in	air	
		Zero calibration		
	Max. gauge pressure	2.5 bar		
	Immersion depth	Min. 60 mm	Max. 25 m	
	Storage	In quiver with moisture s	sponge	

^{*)} User-defined

¹⁾ At rated operating conditions

^{2) ± 1} digit

³⁾ Plus sensor error

⁴⁾ Ranges dependent on Memosens sensor

Portables

Portavo 908 Multi Product Line

Portavo 908 Multi		Order no.
	Portavo 908 Multi for measurement using digital Memosens sensors for pH/ORP, conductivity (contacting or toroidal), and oxygen or using the SE 340 optical oxygen sensor, incl. Paraly SW 112 configuration software with USB connector cable and USB adapter (A female to B male) for printer connection.	908 Multi
pH/Pt1000 sensor		
pH/Pt1000 sensor	Digital Memosens pH sensor Polymer body, ceramic junction, length 120 mm / 4.72 inches	SE 101 MS
pri/r t1000 3ch301	District Management of the Control o	CE 102 MC
	Digital Memosens pH sensor Glass body, ceramic junction, length 110 mm / 4.33 inches	SE 102 MS
pH/Pt1000 sensor		
3500	Digital Memosens pH puncture sensor Polymer body, length 90 mm / 2.36 inches	SE 104 MS
2-electrode sensor		Order no.
	Digital conductivity sensor with Memosens technology Stainless steel body, length 120 mm / 4.72 inches	SE 202-MS
2-electrode sensor		Order no.
	Digital conductivity sensor with Memosens technology Polymer body, length 120 mm / 4.72 inches	SE 615/1-MS
Toroidal conductivity sen	sor (digital)	
	with dairy pipe DN 50 process connection	SE 680N-C1N4U00M
	with Varivent DN 50 process connection	SE 680N-V1N4U00M
	with 2" clamp process connection	SE 680N-J2N4U00M
	with process connection for für ARF 210/215	SE 680N-K8N4U00M



Portavo 908 Multi Product Line

2		
Oxygen sensor Optical oxygen sensor	The SE 715 oxygen sensor with Memosens plug-in system requires little maintenance and is equipped with a temperature probe. It features high long-term stability, a fast response, and low flow dependence. The sensor is designed for the simultaneous measurement of dissolved oxygen and temperature.	SE 715 MS
Memosens cable	Thanks to its optical measuring function and digital data transmission, the SE 340 oxygen sensor is ideal for use with the Portavo 907. It is sturdy and waterproof (IP 68), and, with its extremely fast response time, suitable for a wide range of applications. A further plus point is the beveled membrane, which is both free from incident flow and easy to clean. With a 1.5 m / 4.92 ft fixed cable.	SE 340
	Measuring cable for digital sensors with Memosens connector Length 1.5 m / 4.92 ft	CA/MS-001XFA-L
	Measuring cable for digital sensors with Memosens connector Length 2.9 m / 9.51 ft	CA/MS-003XFA-L
	Measuring cable for digital sensors with M12 socket, 4-pin, M8 connector, 4-pin, length 1.5 m / 4.92 ft	CA/M12-001M8-L
Adapter	Adapter for 12 mm / 0.47 inch industrial sensors with PG 13.5 thread.	ZU 0939
Sensor quiver		
	5 pcs., replacement, for leak-proof storage of sensors	ZU 0929
Sturdy field case		Order no.
	For device and sensor	ZU 0934
Li-ion rechargeable battery		
Note: 2 20 and a second and a s	Li-ion rechargeable battery (USB chargeable with Portavo 904, 907, and 908 only)	ZU 0925

Portables

Portavo 908 Multi Product Line

Impact receipt printer		
	EPSON TM_U220B	ZU 1000
Ink ribbon		
	for EPSON TM_U220B	ZU 1001
Receipt rolls		
	for EPSON TM_U220B, 70 mm x 80 m (WxL), available in packs of 32 units	ZU 1002

IAN Options		Order no.
Configuration Disable management - User 1 -ADMIN	Cal SOP calibration method: User management, sensor check, temperature adjustment (offset)	SW-P001
Pin code 1999 call revel Access conf level Access Back Continue	Temperature adjustment (offset)	SW-P002
	Multi-channel function	SW-P003

Software



PC software for configuration and firmware update (free download at www.knick.de)



Portavo 908 Multi Product Line

CaliMat pH Buffer Solutions	•	Quantity	Order no.
pH 2.00	pH 2.00 (20 °C / 68 °F)	250 ml	CS-P0200/250
pH 4.00	pH 4.00 (20 °C / 68 °F)	250 ml 1000 ml	CS-P0400/250 CS-P0400/1000
PH 7:00	pH 7.00 (20 °C / 68 °F)	250 ml 1000 ml	CS-P0700/250 CS-P0700/1000
pH 9.00	pH 9.00 (20 °C / 68 °F)	250 ml 1000 ml	CS-P0900/250 CS-P0900/1000
ph 12.00	pH 12.00 (20 °C / 68 °F)	250 ml	CS-P1200/250
pH 4.00 pH 4.00	Set pH 4.00 (20 °C / 68 °F)	3 x 250 ml	CS-PSET4
PH 7.00 PH 7.00	Set pH 7.00 (20 °C / 68 °F)	3 x 250 ml	CS-PSET7
PH 0.00 PH 0.00 PH 0.00	Set pH 9.00 (20 °C / 68 °F)	3 x 250 ml	CS-PSET9
PH 4.00 PH 2.00 PH 5.00	Set pH 4.00 / 7.00 / 9.00 (20 °C / 68 °F)	3 x 250 ml	CS-PSET479
	KCI solution, 3 molar	250 ml	ZU 0062
			Knick)