

Portavo 907 Multi pH

Multiparameter portable meter with additional analog pH measurement capability. For all digital Memosens pH, conductivity and oxygen sensors and for analog pH electrodes.

The only portable device for all Memosens parameters. Also for conventional analog sensors. The powerful Li-ion battery can be charged in the device via USB. The clear network diagram provides an at-a-glance view of the sensor condition.

Comprehensive data logger

The following logging types can be selected:

- Manual logging
- Time-controlled logging at a fixed interval
- Signal-controlled logging of measured value and temperature
- Combined time- and signal-controlled logging
- Threshold-controlled logging with pre-trigger

The data logger for up to 10,000 entries records point of measurement, annotation, sensor ID, sensor serial number (Memosens), primary value, temperature, time stamp and device status.

User-friendly software

Portavo 907 proves that a high level of functionality and easy use are not mutually exclusive. It proceeds step by step through the calibration procedure. Technical terms are clearly explained in the context-sensitive help.

Facts

- High-resolution color graphic display
- Transflective and sunlight readable
- Li-ion battery
- Micro USB port and
 Paraly SW 112 software
- A sensor quiver protects the sensor from damage and drying out
- The high-performance polymer housing ensures low water consumption and high impact resistance
- Intelligent data logger with 10,000 entries and graphical representation
- Memosens sensors and analog pH sensors can be used on one device (e.g flat-membrane sensors)
- IP 67 / IP 66 protection
- The mineral glass display is perfectly readable even after years

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pH/mV input (analog)	 pH socket, DIN 19 262 (13/4	1 mm)		
privitiv iriput (analog)	pH range	-2 16		
	Decimal places*)	2 or 3		
	Input resistance	1 x 10 ¹² Ω	(0 35 °C)	
	Input current	1 x 10 ⁻¹² A (at RT, doubles every 10 K)		
	Measuring cycle	Approx. 1 s		
	Measurement error ^{1,2,3)}	< 0.01 pH, TC < 0.001 pH/K		
	mV range	-1300 +1300 mV		
	Measuring cycle	Approx. 1 s		
	Measurement error ^{1,2,3)}	< 0.1 % meas.val. + 0.3 mV TC < 0.03 mV/K		
Temperature input	2 x 4 mm dia. for integrated or separate temperature detector			
Temperature input	Measuring ranges	NTC 30 kΩ	-20 +120 °C	
	Medsamig ranges	Pt 1000	-40 +250 °C	
	Measuring cycle	Approx. 1 s	40 1230 C	
	Measurement error ^{1,2,3)}	< 0.2 K (Tamb = 23 °C); TC < 25 ppm/K		
Memosens pH input (also ISFET)	M8 socket, 4 pins, for Memosens lab cable			
Welliosells pit input (diso isi E1)	Display ranges ⁴⁾	рН	-2.000 +16.000	
	Display lariges	mV	-2000 +2000 mV	
		Temperature	-50 +250 °C	
Memosens ORP input	M8 socket, 4 pins, for Memo		30 1230 C	
Memosens On Input	Display ranges ⁴⁾	mV	-2000 +2000 mV	
	Display lariges	Temperature	-50 +250 °C	
	Sensor standardization*)	ORP calibration (zero adjustment)		
	Permissible calibration rang			
Sensor standardization*)	pH calibration	ge Anny (onset)	700 1700 1114	
Operating modes*)	Calimatic	Calibration with automatic buffer recognition		
Operating modes	Manual	Manual calibration with entry of individual buffer values		
	Data entry	Data entry of zero and slope		
Calimatic buffer sets*)	Knick CaliMat	Ciba (94)	User defined	
	NIST technical	HACH	Mettler-Toledo	
	NIST standard	Hamilton	WTW techn. buffers	
	DIN 19267	Reagecon		
Permissible calibration range	Zero point	6 8 pH		
	With ISFET:	-750 +750 mV	Operating point (asymmetry)	
	Slope	Approx. 74 104 %		
Calibration timer*)	Interval	1 99 days, can be switched off		
Sensoface	Provides information on the sensor condition			
	Evaluation of	zero/slope, response, calibration interval		

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Conductivity input, Memosens	M8 socket, 4 pins, for Memosens lab cable or		
	Measuring range	SE 215 MS sensor	10 μS/cm 20 mS/cm
	Measuring cycle	Approx. 1 s	
	Temperature compensation	Linear 0 20 %/K, reference temp. adjustable nLF: 0 120 °C	
		NaCl	
		HCI (ultrapure water with traces) NH3 (ultrapure water with traces) NaOH (ultrapure water with traces)	
Display resolution ⁵⁾ (autoranging)	Conductivity	0.001 μS/cm	(c < 0.05 cm ⁻¹)
		0.01 μS/cm	$(c = 0.05 \dots 0.2 \text{ cm}^{-1})$
		0.1 μS/cm	$(c > 0.2 \text{ cm}^{-1})$
	Resistivity	00.00 99.99 MΩ • cm	
	Salinity	0.0 45.0 g/kg	(0 30 °C)
	TDS	0 1999 mg/l	(10 40 °C)
	Concentration	0.00 9.99 % by wt	
Concentration determination	NaCl	0.00 9.99 % by wt	(0 60 °C)
	HCI	0.00 9.99 % by wt	(-20 50 °C)
	NaOH	0.00 9.99 % by wt	(0 100 °C)
	H2SO4	0.00 9.99 % by wt	(-17 110 °C)
	HNO3	0.00 9.99 % by wt	(-17 50 °C)
Sensor standardization	Cell constant	Input of cell constant with simultaneous display of	
		conductivity value and temperature	
	Input of solution Input of conductivity of the calibration with simultaneous display of cell consta		
		temperature	ay of Cell Collstant and
	Auto	Automatic determination of the cell constant with	
		KCI solution or NaCl solution	

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Memosens input, oxygen	M8 socket, 4 pins, for Memosens lab cable		
	Display ranges ⁴⁾	Saturation	0.000 1000.0 %
		Concentration	000 μg/l 100.00 mg/l
		Partial pressure	0.0 2000 mbars
	Temperature meas. range ⁴⁾	-20 150 °C	
Sensor standardization	Automatic calibration in air, humidity adjustable		
	Zero calibration		
Storage	in quiver		
Connections	2x socket, 4 mm dia., for separate temp. detector		
	1x M8 socket, 4 pins, for Memosens lab cable		
	1x micro USB-B for data transmission to PC		
	1x pH socket, to DIN 19262		

User interface	Straightforward menu navigation with graphic icons and detailed operating		
Languages	instructions in plain text German, English, French, Spanish, Italian, Portuguese, Russian		
Languages Status indicators	For battery power level, logger		
Graphic display			
	QVGA TFT display with white backlighting [on/off], [meas], [●], [▶], [▶], [▶]		
Keypad	2 context-sensitive softkeys		
 Data logger	10,000 memory locations		
Data logger	Recording	Manual, interval- and/or event-controlled with limit value and pre-trigger, management of tag numbers and annotations	
MemoLog calibration data logger	Up to 100 Memosens calibration records can be saved		
(Memosens only)	 Recording viewable on t 		
(,	– directly retrievable via MemoSuite (USB)		
	Manufacturer, sensor type, serial no., zero, slope, calibration date		
Communication	USB 2.0	, , , , , , , , , , , , , , , , , , , ,	
	Profile	HID, driverless installation	
	Usage	Data exchange and configuration via Paraly SW 112 software	
Diagnostics functions	Sensor data (only Memosens) Manufacturer, sensor type, serial number, wear, operating time		
	Calibration data	Calibration date, zero, slope	
	Device self-test	Automatic memory test (FLASH, EEPROM, RAM)	
	Device data	Device type, software version, hardware version	
Data retention	Parameters, calibration data > 10 years		
EMC	EN 61326-1 (General Requirements)		
	Emitted interference	Class B (residential area)	
	Immunity to interference	Industry	
	EN 61326-2-3 (Particular Requirements for Transmitters)		
RoHS conformity	According to directive 2011/65/EU		
Power supply	4x AA batteries		
	4x rechargeable NiMH batteries		
	1x Li-ion battery, USB chargeable		
Nominal operating conditions	Ambient temperature	-10 +55 ℃	
	Transport/Storage temp.	-25 +70 ℃	
	Relative humidity	0 95 %, short-term condensing allowed	
Housing	Material	PA12 GF30 + TPE	
	Ingress protection	IP66/67 with pressure compensation	
	Dimensions	Approx. (132 x 156 x 30) mm	
	Weight	Approx. 500 g	

^{*)} user-defined

¹⁾ According to EN 60746-1, at nominal operating conditions

^{2) ± 1} count

³⁾ Plus sensor error

⁴⁾ Ranges depending on Memosens sensor

⁵⁾ c = cell constant