

Portavo 907 Multi Oxy

The only solution you need for optical oxygen measurement Multiparameter analyzer for digital pH/ORP, conductivity, and oxygen sensors with Memosens technology

Portavo 907 Multi Oxy optionally features a powerful Li-ion rechargeable battery that can be charged via USB directly in the device. The clear sensor diagram provides an at-a-glance view of the sensor condition.

Comprehensive Data Logger

The following logger types can be selected:

- Manual logging
- Time-controlled logging at set intervals
- Signal-controlled logging of process variables and temperatures
- Combined time- and signal-controlled logging
- Threshold-controlled logging with pre-trigger

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

User-Friendly Software

Portavo 907 Multi Oxy proves that high functionality and ease of use do not exclude one another. It guides you step by step through the calibration procedure. Technical terms are clearly explained in the context help.

Multi-Channel Function for Simultaneous Operation of 2 Sensors

If equipped with the multi-channel option, Portavo 907 Multi Oxy can be used for simultaneous measurements using 2 flexibly combined sensors. The multi-channel function is added to the functionality of the data logger.



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Facts and Features

- Use with SE 340 optical oxygen sensor
- High-resolution color graphic display Transflective, even when exposed to direct sunlight
- Li-ion rechargeable battery
- Integrated pressure measurement to compensate for air pressure fluctuations
- Micro USB port and Paraly SW 112 operating software
- Sensor quiver protects the sensor from drying out and damage
- High-performance polymer housing ensures low water absorption and high impact resistance
- Intelligent data logger with 10,000 entries and graphic display
- IP 66/67 protection
- Mineral glass screen can still be read perfectly after many years
- Multi-channel function
- New add-on functions, such as a new pH calibration procedure, user management, sensor check, and calibration of the temperature probe, are available as options.



Original size

Laboratory Meters and Portables

Portables

Specifications

Optical oxygen input	M12 socket for SE 340 sensor or Memosens sensors OXY measuring ranges at 20 °C / +68 °F Response time Measurement error ^{1,2,3)} Measuring cycle Measurement error ^{1,2,3)} Temperature range ⁴⁾ Measurement error ^{1,2,3)}	Saturation Concentration Partial pressure t90 < 30 s Zero signal < 0.1 % of final saturation value Approx. 1 s < 0.1 % of measured value 0 ... +50 °C / +32 ... +122 °F Temperature ± 0.2 K	0.000 ... 200.0 % 000 µg/l ... 20.00 mg/l 0.0... 1000 mbar t99 < 60 s
Sensor adjustment	Automatic calibration in air, adjustable relative humidity Zero calibration Max. gauge pressure Immersion depth	2.5 bar Min. 60 mm	Max. 25 m
Storage	Quiver		
Temperature input	2 x Ø 4 mm for integrated or separate temperature probe Measuring ranges	NTC 30 kΩ Pt1000	-20 ... +120 °C / -4 ... +248 °F -40 ... +250 °C / -40 ... +482 °F
Memosens pH input (also ISFET)	Measuring cycle Measurement error ^{1,2,3)}	Approx. 1 s < 0.2 K (Tamb = +23 °C / +73.4 °F); TC < 25 ppm/K	
Memosens ORP input	M8 socket, 4-pin, for Memosens laboratory cable, and M12 socket, 8-pin Display ranges ⁴⁾	pH mV Temperature	-2.000 ... +16.000 -2000 ... +2000 mV -50 ... +250 °C -58 ... +482 °F
Sensor adjustment*) Operating modes*)	Sensor adjustment*) Permissible calibration range	ORP calibration (zero offset) ΔmV (offset)	-700 ... +700 mV
Calimatic buffer sets*)	pH calibration Calimatic Manual	Calibration with automatic buffer recognition Manual calibration with entry of individual buffer values	
Permissible calibration range	Data entry Knick CaliMat NIST Technical NIST Standard DIN 19267 Zero point With ISFET: Operating point (asymmetry) Slope	Data entry of zero point and slope Ciba (94) HACH Hamilton Reagecon 6 ... 8 pH -750 ... +750 mV approx. 74 ... 104 %	User-defined Mettler-Toledo WTW techn. buffers
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	

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Specifications

Conductivity input, Memosens	M8 socket, 4-pin, for Memosens laboratory cable, or M12 socket 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, adjustable reference temperature nLF: 0 ... +120 °C/+32 ... +248 °F
Display resolution ⁵⁾ (autoranging)	NaCl	
	HCl (ultrapure water with traces)	
	NH ₃ (ultrapure water with traces)	
	NaOH (ultrapure water with traces)	
Concentration determination	Conductivity	0.001 µS/cm (c < 0.05 cm ⁻¹) 0.01 µS/cm (c = 0.05 ... 0.2 cm ⁻¹) 0.1 µS/cm (c > 0.2 cm ⁻¹)
	Resistivity	00.00 ... 99.99 MΩ · 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)
Sensor adjustment	Concentration	0.00 ... 100 wt%
	NaCl	0 – 26 wt% (0 °C / +32 °F) ... 0 – 28 wt% (+100 °C / +212 °F)
	HCl	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)
	HCl	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)
	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 KCl or NaCl solution

Laboratory Meters and Portables

Portables

Specifications

Memosens input, oxygen	M8 socket, 4-pin, for Memosens laboratory cable, or M12 socket for Memosens sensors		
Display ranges ⁴⁾	Saturation	0.000 ... 200.0 %	
	Concentration	0.00 µg/l ... 20.00 mg/l	
Temperature range ⁴⁾	Partial pressure	0.0... 1000 mbar	
	-20 ... +150 °C / -4 ... +302 °F		
Sensor adjustment	Automatic calibration in air, adjustable relative humidity, automatic ambient pressure compensation		
Storage	Zero calibration		
Connections	In quiver		
Air pressure measurement	2 x socket Ø 4 mm for separate temperature probe		
Device operation	1 x M8 socket, 4-pin, for Memosens laboratory cable		
Languages	1 x micro USB-B for data transmission to PC		
Sensoface	1 x M12, 8-pin, for Memosens sensors or SE 340 (optical oxygen)		
Status indicators	700 ... 1100 hPa		
Graphic display	Easy-to-use menu navigation with graphic symbols and detailed user hints in plain text		
Keypad	German, English, French, Spanish, Italian, Portuguese		
Data logger	Status display (friendly, neutral, sad)		
MemoLog calibration data logger (Memosens only)	For battery condition, logger		
Communication	QVGA TFT display with white backlighting		
Diagnostic functions	[on/off], [meas], [enter], [\blacktriangleleft], [\triangleright], [\blacktriangle], [\blacktriangledown]		
	2 softkeys with context-dependent assignment		
Data retention	Space for 10,000 entries		
	Recording	Manual, interval- and/or event-controlled with limit value and pre-trigger, management of tag numbers and annotations	
		Can save up to 100 Memosens calibration records	
		– recording can be shown on the display	
		– directly readable via MemoSuite (USB):	
		Manufacturer, sensor type, serial no., zero point, slope, calibration date	
	USB 2.0		
	Profile	HID, driverless installation	
	Usage	Data transfer and configuration via the Paraly SW 112 software	
	Sensor data (Memosens only)	Manufacturer, sensor type, serial number, wear, operating time	
	Calibration data	Calibration date, zero point, slope	
	Device self-test	Automatic memory test (FLASH, EEPROM, RAM)	
	Device data	Device type, software version, hardware version	
	Parameter, calibration data > 10 years		

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Specifications

EMC	EN 61326-1 (General requirements) Emitted interference Class B (residential) Interference immunity Industrial applications EN 61326-2-3 (Particular requirements for transducers)
RoHS conformity	According to Directive 2011/65/EU
Power supply	4 x AA (Mignon) alkaline batteries or 1 x Li-ion rechargeable battery (rechargeable via USB)
Rated operating conditions	Ambient temperature -10 ... +55 °C / +14 ... +131 °F Transport/Storage temperature -25 ... +70 °C / -13 ... +158 °F Relative humidity 0 ... 95 %, brief condensation permissible
Housing	Material PA12 GF30 + TPE 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

*) User-defined

1) At rated operating conditions

2) ± 1 digit

3) Plus sensor error

4) Ranges dependent on sensor

5) c = cell constant

Laboratory Meters and Portables

Portables

Portavo 907 Multi Oxy Product Line

Portavo 907 Multi Oxy



Portavo 907 Multi Oxy 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.

Order no.

Portavo 907
Multi Oxy

Portavo 907SET-MULTI-LDO



Portavo 907 Multi Oxy, SE 340 optical oxygen sensor,
ZU 0934 field case, incl. USB connector cable

907SET-MULTI-LDO

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

Optical oxygen sensor



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

Sensor protection / calibration cap



Sensor protector that also serves as a calibration beaker for the SE 340 optical oxygen sensor.

ZU 0911

Protective cap

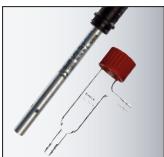


Sensor cap, spare part for the SE 340 optical oxygen sensor.

ZU 0913

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Portavo 907 Multi Oxy Product Line

		Order no.
pH/Pt1000 sensor	Digital Memosens pH sensor Polymer body, ceramic junction, length 120 mm / 4.72 inches	SE 101 MS
		
pH/Pt1000 sensor	Digital Memosens pH sensor Glass body, ceramic junction, length 110 mm / 4.33 inches	SE 102 MS
		
pH/Pt1000 sensor	Digital Memosens pH puncture sensor Polymer body, length 90 mm / 2.36 inches	SE 104 MS
		
2-electrode sensor	Digital conductivity sensor with Memosens technology Stainless steel body, length 120 mm / 4.72 inches	SE 202-MS
		
2-electrode sensor	Digital conductivity sensor with Memosens technology Polymer body, length 120 mm / 4.72 inches	SE 615/1-MS
		
Toroidal conductivity sensor (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 ARF 210/215	SE 680N-K8N4U00M

Laboratory Meters and Portables

Portables

Portavo 907 Multi Oxy Product Line

Memosens cable



Measuring cable for digital sensors with Memosens connector
Length 1.5 m / 4.92 ft

Order no.

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

Base stand



Base stand for accepting up to 3 sensors with base plate made of
stainless steel

ZU 6953

Sensor quiver



5 pcs., replacement, for leak-proof storage of sensors

ZU 0929

Sturdy field case



For device and sensor

ZU 0934

Li-ion rechargeable battery



Li-ion rechargeable battery (USB chargeable with Portavo
904, 907, and 908 only)

ZU 0925

Flow cell



For SE 715 oxygen sensor with flexible tube connections

ZU 0284

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Portavo 907 Multi Oxy Product Line

Maintenance kit

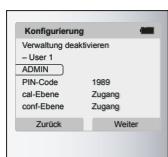


Electrolyte, 3 membrane caps for amperometric oxygen sensors

Order no.

ZU 0879

TAN Options



Cal SOP calibration method: User management, sensor check, temperature adjustment (offset)

SW-P001

Temperature adjustment (offset)

SW-P002

Multi-channel function

SW-P003

Software



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

Laboratory Meters and Portables

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Portavo 907 Multi Oxy Product Line

CaliMat pH Buffer Solutions		Quantity	Order no.
	pH 2.00 (20 °C / 68 °F)	250 ml	CS-P0200/250
	pH 4.00 (20 °C / 68 °F)	250 ml	CS-P0400/250
		1000 ml	CS-P0400/1000
	pH 7.00 (20 °C / 68 °F)	250 ml	CS-P0700/250
		1000 ml	CS-P0700/1000
	pH 9.00 (20 °C / 68 °F)	250 ml	CS-P0900/250
		1000 ml	CS-P0900/1000
	pH 12.00 (20 °C / 68 °F)	250 ml	CS-P1200/250

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Portavo 907 Multi Oxy Product Line

CaliMat pH Buffer Solutions	Quantity	Order no.
	Set pH 4.00 (20 °C / 68 °F) 3 x 250 ml	CS-PSET4
	Set pH 7.00 (20 °C / 68 °F) 3 x 250 ml	CS-PSET7
	Set pH 9.00 (20 °C / 68 °F) 3 x 250 ml	CS-PSET9
	Set pH 4.00 / 7.00 / 9.00 (20 °C / 68 °F) 3 x 250 ml	CS-PSET479
	KCl solution, 3 molar 250 ml	ZU 0062

По вопросам продаж и поддержки обращайтесь:

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