Scientific Equipment
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Portavo 902 Cond

The basic version for mobile conductivity measurement.

Robust, intuitive portable analyzer for routine daily measurements in laboratories and processes.

Facts and Features

– Memosens sensors or analog sensors for conductivity measurement can be used on one device.

– A sensor quiver protects the sensor from drying out or being damaged in daily use.

– Robust housing with IP66/67, also for outdoor use

– The mineral glass display is perfectly readable even after years

– Temperature probe adjustment in the Memosens sensor (offset correction)

Knick ›

SE 204
C = 0.475 cm^{-1}
-5 ... +80 (+100) °C
Made in Germany

MEMO SENS

198.2 mS/cm
25.8 °C   NTC

meas   cal   set

▲   clock

▼   on/off

MEMO SENS

3-year warranty!

Original size

Conductivity Measurement

Specifications

Conductivity input, analog	Multi-contact for 2-/4-electrode sensors with integrated temp detector	
	Measuring ranges	SE 202 sensor: 0.01 ... 200 µS/cm SE 204 sensor: 1 µS/cm ... 500 mS/cm
		2-electrode sensors: 0.1 µS • c … 200 mS • c[4] 4-electrode sensors: 0.1 µS • c … 1000 mS • c[4]
	Permissible cell constant	0.005 ... 200.0 cm^{-1} (adjustable)
	Measurement error[1,2,3]	< 0.5 % meas.val. + 0.4 µS • c[4]
Temperature input	2 x 4 mm dia. for integrated or separate temperature detector	
	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 °F); TC < 25 ppm/K
Conductivity input, Memosens	M8 socket, 4 pins, for Memosens lab cable	
Conductivity input	Measuring cycle	Approx. 1 s
	Temperature compensation	Linear 0 … 20 %/K, reference temp. adjustable nLF: 0 ... 120 °C / 32 ... 248 °F NaCl (ultrapure water with traces) HCl (ultrapure water with traces) NH3 (ultrapure water with traces) NaOH (ultrapure water with traces)
Display resolution (autoranging)	Conductivity[4]	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)
	Concentration	0.00 … 9.99 wt%
Concentration determination	NaCl	0.00 ... 9.99 wt% (0 ... 60 °C / 32 ... 140 °F)
	HCl	0.00 ... 9.99 wt% (–20 ... 50 °C / –4 ... 122 °F)
	NaOH	0.00 ... 9.99 wt% (0 ... 100 °C / 32 ... 212 °F)
	H_2SO_4	0.00 ... 9.99 wt% (–17 ... 110 °C / 1.4 ... 230 °F)
	HNO_3	0.00 ... 9.99 wt% (–17 ... 50 °C / 1.4 ... 122 °F)
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 solution with simultaneous display of cell constant and temperature
	Auto	Automatic determination of the cell constant with KCl solution or NaCl solution
	Temperature calibration (TAN option)	Software option SW-P002 for temperature probe adjustment in the Memosens sensor (offset correction)
Connections	2 x socket, 4 mm dia., for separate temperature probe 1 x M8 socket, 4 pins, for Memosens lab cable 1 x multi-contact socket for 2- and 4-electrode sensors	

Specifications

Display	LCD STN 7-segment display with 3 lines and icons	
	Sensoface	Provides information on the sensor condition
	Status indicators	for battery power level
	Notices	Hourglass
Keypad	[on/off], [cal], [meas], [set], [▲], [▼], [clock]	
Diagnostic functions	Sensor data (Memosens only)	Manufacturer, sensor type, serial number, operating time
	Calibration data	Calibration date; cell constant
	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 environment)
	Immunity to interference	Industrial applications
	EN 61326-2-3	
RoHS conformity	According to directive 2011/65/EU	
Power supply	4 x AA alkaline or lithium batteries	
	Operating time	Approx. 1000 h (alkaline)
Nominal operating conditions	Ambient temperature	–10 ... 55 °C / 14 ... 131 °F
	Transport/Storage temp.	–25 ... 70 °C / –13 ... 158 °F
	Relative humidity	0 ... 95 %, short-term condensing allowed
Housing	Material	PA12 GF30 (silver 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

* user-defined
1) at nominal operating conditions
2) ± 1 count
3) plus sensor error
4) c = cell constant