Portavo 904 Cond

Portable and robust analyzer for conductivity measurement.

Up to 5,000 values can be recorded using the integrated data logger. Using the USB port and the Paraly SW 112 software, the logger data can be easily transferred to a PC for analysis.

Security Package Included
User management

The 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 entered
- Different access rights can be established

Depending on user experience, the role profile can be selectively defined for configuring the device and sensor as well as for calibrating the sensor. The risk of changing settings inadvertently is clearly minimized in this way.

More Safety During Operation

Memosens sensors can be assigned directly to the Portavo. As such, data saved in the sensor can be consulted, including

Sensor type
TAG
Group

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

Facts and Features

- Memosens sensors or analog sensors for conductivity measurement can be used on one device.
- A sensor quiver protects the sensor from damage and drying out
- Robust housing with IP66/67, also for outdoor use
- Li-ion battery – charged directly via USB
- Data logger with 5,000 values
- Micro USB port and Paraly SW 112 software
- The mineral glass display is perfectly readable even after years
- User management for access control
- Sensor check for clear sensor-to-device assignment via sensor type, TAG or "Group"
- Temperature probe adjustment in the Memosens sensor (offset correction)

MEMO SENS

3-year warranty!

Original size

Specifications

Conductivity input, analog	Multi-contact for 2-/4-electrode sensors with integrated temp detector		
	Measuring ranges	SE 202 sensor: SE 204 sensor:	0.01 ... 200 µS/cm 0.05 ... 500 mS/cm
		2-electrode sensors: 4-electrode sensors:	0.1 µS • c ... 200 mS • c [4] 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 Pt1000	–20 ... 120 °C / –4 ... 248 °F –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 temperature 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 0.01 µS/cm 0.1 µS/cm	(c < 0.05 cm^{-1}) (c = 0.05 ... 0.2 cm^{-1}) (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 % by wt	
Concentration determination	NaCl HCl NaOH H_2SO_4 HNO_3	0.00 ... 9.99 wt% (0 ... 60 °C / 32 ... 140 °F) 0.00 ... 9.99 wt% (–20 ... 50 °C / –4 ... 122 °F) 0.00 ... 9.99 wt% (0 ... 100 °C / 32 ... 212 °F) 0.00 ... 9.99 wt% (–17 ... 110 °C / 1.4 ... 230 °F) 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 micro USB-B for data transmission to PC 1 x multi-contact socket for 2- and 4-electrode sensors		

Specifications

Display	LCD STN 7-segment display with 3 lines and icons	
	Status indicators	For battery power level, logger
	Notices	Hourglass
Keypad	[on/off], [cal], [meas], [set], [▲], [▼], [STO], [RCL], [clock]	
Data logger	5,000 memory locations	
	Recording	Manual, interval- or event-controlled
MemoLog calibration data logger (Memosens only)	Up to 100 Memosens calibration records can be saved – 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
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 batteries or 1 x Li-ion battery, USB chargeable	
	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