Conductivity Measurement

Portavo 904 Cond

Robust, intuitive portable device for conductivity measurement.

Up to 5,000 values can be recorded using the integrated data logger. These data can be easily transferred to a computer for analysis using the USB interface and the included software.



Facts

- A sensor quiver protects the sensor from damage and drying out
- The high-performance polymer housing ensures low water consumption and high impact resistance
- Over 1,000 hours of measurement with a single set of batteries (4x AA)
- Li-ion battery
- Data logger with 5,000 values
- Micro USB port and Paraly SW 112 software
- Memosens sensors and analog sensors can be used on one device.
- The mineral glass display is perfectly readable even after years

Knick >



Specifications

Measuring ranges SE 202 sensor:	Conductivity input, analog	Multi-contact for 2-/4-electro	Multi-contact for 2-/4-electrode sensors with integrated temp detector		
SE 204 sensors: 0.05 to 500 mS/cm 2-electrode sensors: 0.1 μS · c 1000 mS · c³l 4-electrode sensors: 0.1 μS · c 1000 mS · c²l 4-electrode sensors: 0.1 μS · c 1000 mS · c²l 4-electrode sensors: 0.1 μS · c 1000 mS · c²l 4-electrode sensors: 0.1 μS · c 1000 mS · c · c · c · c · c · c · c · c · c ·	conductivity input, analog		_		
Permissible cell constant Permissible cell constant A-electrode sensors: 0.1 μS · c · 1000 mS · c · c 4-electrode sensors: 0.1 μS · c · 1000 mS · c · c 4-electrode sensors: 0.1 μS · c · 1000 mS · c · c 4-electrode sensors: 0.1 μS · c · 1000 mS · c · c 4-electrode sensors: 0.1 μS · c · 1000 mS · c · c 4-electrode sensors: 0.1 μS · c · 1000 mS · c · c 4-electrode sensors: 0.1 μS · c · 1000 mS · c · c 4-electrode sensors: 0.1 μS · c · 1000 mS · c · c 4-electrode sensors: 0.1 μS · c · 1000 mS · c · c 4-electrode sensors: 0.1 μS · c · 1000 mS · c · c 4-electrode sensors: 0.1 μS · c · 1000 mS · c · c 4-electrode sensors: 0.1 μS · c · 120 ° C		, , , , , , , , , , , , , , , , , , ,			
Permissible cell constant Measurement error 12,3 0,005 200,0 cm² (adjustable)			2-electrode sensors:		
Permissible cell constant Measurement error 1,23 2,0 % measval, + 0,4 μS + c ⁵				0.1 μS • c 1000 mS	
Temperature input 2 x 4 mm dia. for integrated or separate temperature detector Measuring ranges NTC 30 kΩ -20 +120 °C +1000 -40 +250 °C Measuring cycle Approx. 1 s Measurement error¹-2.30 < 0.2 k (Tamb = 23 °C); TC < 25 ppm/K Measuring range SE 215 MS sensor 10 μS/cm 20 mS/cm Measuring range SE 215 MS sensor 10 μS/cm 20 mS/cm Measuring range SE 215 MS sensor 10 μS/cm 20 mS/cm Measuring range NHC (ultrapure water with traces) NH3 (ultrapure water with traces)			0.005 200.0 cm ⁻¹ (adjustable)		
Measuring ranges NTC 30 kΩ -20 +120 °C Pt 1000 -40 +250 °C Pt 1000 Pt 1000 °C Pt 1000					
Pt 1000	Temperature input	_			
Measuring cycle Measurement error 1-2-30		Measuring ranges			
Measurement error ^{1,2,3)}			Pt 1000	-40 +250 ℃	
Conductivity input, Memosens M8 socket, 4 pins, for Memosens lab cable Measuring range SE 215 MS sensor 10 μS/cm 20 mS/cm Conductivity input Measuring cycle Approx. 1 s Image: Linear 0 20 %/K, reference temp. adjustable nLF: 0 120 °C NaCl HCI (ultrapure water with traces) HCI (ultrapure water with traces) NAOH (ultrapure water with traces) NB (ultrapure water with traces) NAOH (ultrapure water with traces) NaOH (ultrapure water with traces) NaOH (ultrapure water with traces) Na (c < 0.05 cm²¹) 0.01 μS/cm (c < 0.05 cm²¹) 0.1 μS/cm (c < 0.05 cm²¹) (c > 0.2 cm²¹) Resistivity 0.00 1 μS/cm (c < 0.05 cm²¹) Salinity 0.00 0 9.99 MΩ · cm Salinity 0.00 0 9.99 MD · cm TDS 0 1999 mg/l (10 40 °C) Concentration determination NaCl 0.00 9.99 % by wt (0 60 °C) HCI 0.00 9.99 % by wt (0 60 °C) HCI 0.00 9.99 % by wt (0 100 °C) HONGA 0.00 9.99 % by wt (17 110 °C) HONGA 0.00 9.99 % by wt (17 110 °C) HONGA 0.00			• •		
Measuring range SE 215 MS sensor 10 μS/cm 20 mS/cm Conductivity input Measuring cycle Temperature compensation Emperature compensation In LF: 0 120 °C NaCI HCI (ultrapure water with traces) NH3 (ultrapure water with traces) NH3 (ultrapure water with traces) NBOH (ultrapure water with traces) Display resolution ⁵⁾ (autoranging) Conductivity 0.001 μS/cm (c < 0.05 cm ⁻¹) 0.01 μS/cm (c < 0.02 cm ⁻¹) (c < 0.05 cm ⁻¹) (c < 0.02 cm ⁻¹) Resistivity 0.000 99.99 MΩ · cm Salinity Salinity 0.00 99.99 MΩ · cm Salinity 0.0 45.0 g/kg 0 45.0 g/kg 0 45.0 g/kg 0 100 mg/g (0 30 °C) Concentration determination NaCl HCl NaOH NaOH 12504 0.00 9.99 % by wt 0.00 9.99 % by wt 0.00 9.99 % by wt 0.00 9.99 % by wt 0.10 100 °C) 0.10 · c) 0.10 · c) <br< th=""><td></td><td></td><td colspan="2"></td></br<>					
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NLF: 0 120 °C NaCl HCl (ultrapure water with traces) NH3 (ultrapure water with under with conductivity of (ultrapure water with under with under water with under water with under with under water with under water with under water water with under water water with under water water water water with under water	Conductivity input				
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NH3 (ultrapure water with traces) NaOH (ultrapure water with traces) NaOH (ultrapure water with traces) NaOH (ultrapure water with traces) On the properties of the properties of the cell constant with simultaneous display of cell constant and temperature NH3 (ultrapure water with traces) NaOH			NaCl		
NaOH (ultrapure water with traces) Conductivity					
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Status indicators for battery power level, logger	B: 1			<u> </u>	
	Display				
Notices Hourglass				logger	
		Notices	Hourglass		

Specifications

Keypad	[on/off], [cal], [meas], [set], [▲], [▼], [STO], [RCL], [clock]		
Data logger	5,000 memory locations		
33	Recording	Manual, interval- or event-controlled	
MemoLog calibration data logger	Up to 100 Memosens calibration records can be saved		
(Memosens only)	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 11 software	
Diagnostics functions	Sensor data (only Memosens) 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 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		
	Operating time	Approx. 1000 h (alkaline)	
Nominal operating conditions	Ambient temperature	-10 +55 ℃	
	Transport/Storage temp.	-25 +70 °C	
	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

⁵⁾ c = cell constant