Portavo 904 X Cond

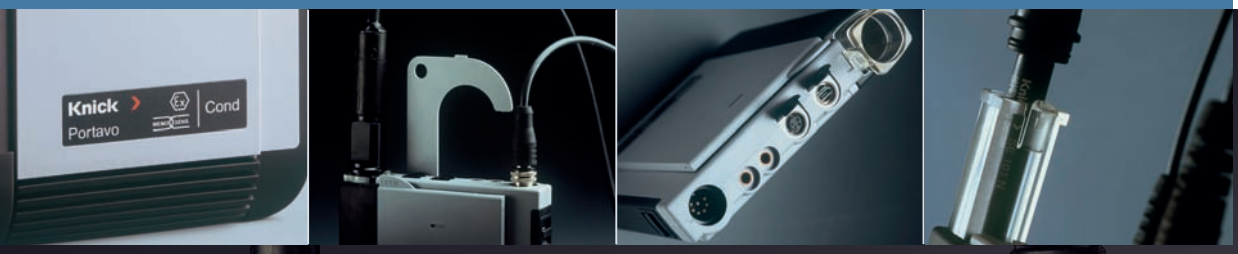
The world's only portable device for conductivity measurement with ATEX approval for measurements up to zone 0/1. Ideal for applications in the process industry.

For the first time, Portavo enables direct on-site testing of process measuring points. It is compatible with almost all analog and Memosens process sensors.

The new MemoLog function allows the user to log calibration data from various Memosens measuring points, which can then be easily transferred to a computer via the standard USB connection. The Paraly SW 112 software enables user-friendly management of all recorded data.

Facts

- A sensor quiver protects the sensor from damage
- 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)
- Data logger with 5,000 values
- Micro USB port and Paraly SW 112 software
- Memosens sensors and analog conductivity sensors can be used on one device.
- The mineral glass display is perfectly readable even after years
- Application in hazardous locations for measurements up to Zone 0/1 (cCSAus planned)
- The world's only portable device for liquid analysis in hazardous locations
- Ideal for applications in the process industry



MEMO SENS

3 years warranty!

Original size

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:	0.05 to 500 mS/cm
		2-electrode sensors:	0.1 µS • c … 200 mS • c[5)]
		4-electrode sensors:	0.1 µS • c … 1000 mS • c[5)]
	Permissible cell constant	0.005 … 200.0 cm^{-1} (adjustable)	
	Measurement error[1,2,3)]	< 0.5 % meas.val. + 0.4 µS • c[5)]	
Temperature input	2 x 4 mm dia. for integrated or separate temperature detector		
	Measuring ranges	NTC 30 kΩ	-20 … +120 °C
		Pt 1000	-40 … +250 °C
	Measuring cycle	Approx. 1 s	
	Measurement error[1,2,3)]	< 0.2 K (Tamb = 23 °C); TC < 25 ppm/K	
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	
	Temperature compensation	Linear 0 … 20 %/K, reference temp. adjustable	
		nLF: 0 … 120 °C	
		NaCl	
		HCl (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 … 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)
	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)
	HCl	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 solution with simultaneous display of cell constant and temperature	
	Auto	Automatic determination of the cell constant with KCl solution or NaCl solution	
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 multi-contact socket for 2- and 4-electrode sensors		
Display	LCD STN 7-segment display with 3 lines and icons		
	Sensoface	provides information on the sensor condition	
	Status indicators	for battery power level, logger	
	Notices	Hourglass	

Specifications

Keypad	[on/off], [cal], [meas], [set], [▲], [▼], [STO], [RCL], [clock]	
Data logger	5,000 memory locations	
	Recording	Manual, interval- and/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
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)	
Explosion protection	Global	IECEx Ex ia IIC T4/T3 Ga
	Europe	ATEX II 1 G Ex ia IIC T4/T3 Ga
	USA, Canada	IS Class I, Division 1, Groups A,B,C,D, T4/T3, Ta = 40 °C / 50 °C; Entity; Type 4X IS Class I, Zone 0, AEx ia IIC T4 / T3, Ta = 40 °C / 50 °C; Entity; Type 4X
RoHS conformity	According to directive 2011/65/EU	
Power supply	4x AA batteries	
	Operating time	Approx. 1000 h (alkaline)
Nominal operating conditions	Ambient temperature	–10 °C ≤ Ta ≤ +40 °C T4 –10 °C ≤ Ta ≤ +50 °C T3
	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