



POLYMETRON 9126

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Portable Conductivity Certification System

Benefits

- Traceable reference conductivity system for online calibration and/or validation in conductivity measurements
- Reduces downtime when calibrating and or validating conductivity measurements in your process
- All-in-one protected bench that includes all devices. No risk to disconnect cables, probes, chambers and losing data
- No contamination risk of the water loop as the process conductivity probe being calibrated/validated remains in place
- Conductivity sensors can be checked in-line or with a flow through chamber
- Specific software for installed cell constant calculation with logbook of the 10 last operations
- Uncompensated mode available to meet USP requirements
- NEMA 4X, IP65 Housing
- Certification traceability with certificates conforming to ASTM D5193, ASTM D1125, NIST standards

Principle of measurement

The POLYMETRON 9126 is a portable calibration system used as a certified reference for calibrating and/or validating on-line conductivity measurements for pharmaceutical, semiconductor and power plant pure and ultrapure water systems. This instrument is designed to facilitate such actions while the conductivity probes remain in process.

The POLYMETRON 9126 conductivity calibration/verification system for pure and ultrapure conductivity sensors can be mounted in parallel or in series with conductivity measuring systems being checked. It is easy-to-use; the user only needs to connect the inlet to a sampling point and the outlet to the drain.

The POLYMETRON 9126 can also be used as backup unit for all conductivity installed units.

The POLYMETRON 9126 is compact and completely protected. It comes with a drawer of tools and user manual. A special program is included that allows the user to perform an automatic calculation of the cell constant of the probe being checked. In addition to this, an electrical calibration of the conductivity input of the transmitter can be performed with a certified resistor and is in compliance with the ASTM D5391-99 standards.

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Performance specifications

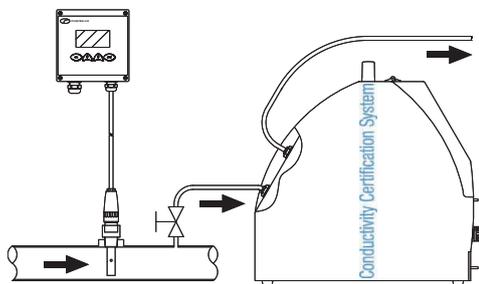
Description	POLYMETRON 9126 including a 9125 conductivity transmitter with a flow chamber and a high purity conductivity probe. (cell constant k=0.01 with Pt100 sensor grade A)	
Analysis	Accuracy	Whole analyzer ± 2% Temperature ± 0.2 °C
Measuring range	Resistivity	5 k .cm to 100 M .cm ± 2% of the value displayed
Repeatability	Conductivity	0.01 to 200 µS/cm ± 2% of the value displayed
	Temperature	-20 to 200 °C (-4 to 392 °F) + 0.2 °C
Temperature compensation	Modes available	Uncompensated for USP waters Ultrapure compensation (HCl or NaCl)
	Compensation range	-20 to 200 °C (-4 to 392 °F)
Operating conditions	Temperature	-20 to 60 °C (-4 to 140 °F)
	Humidity	10 to 90 %
Sampling	Max. temperature	100 °C (212 °F) at 1 bar
	Max. pressure	10 bar at 70 °C (160 °F)
	Min. flow rate	> 20 l/h (5.3 gal/h)
Display and menu	Presentation	Inclined plane (30°) with backlight, 5 lines of 16 characters : icons and graphic zone (80 x 64 pixels)
	Languages	English, French, German, Italian, Spanish
	Cell constant	Automatic calculation of cell constant being checked
	Traceability	Last 10 calibration / validation memorized
Enclosure	Material	Calibration bench ABS
	Dimensions	H 450 mm x W 250 mm x D 460 mm (17.7 x 9.8 x 18.1 inches)
	Weight	7 kg (15.5 lb.)
Connections	Sample Inlet & Outlet	Compression fitting DN8 or 5/16"
	Tubing material	PE if sample < 60 °C (140 °F) PTFE if sample > 60 °C (140 °F)
	Power supply	IP 67 waterproof female connector, supplied as standard
	4-20 mA	IP 67 waterproof socket female with connector as option
	To tested transmitter	IP 67 waterproof socket
Power supply	Version 9126=A=0000	90 to 265 VAC 50/60 Hz
	Version 9126=A=0020	13 to 30 VAC and 18 to 42 VDC
	Consumption	25 VA
Outputs	Analogue	2 x 0/4 - 20 mA (linear, bilinear, log) ± 0.1 mA (temperature & conductivity/resistivity)
	Maximum load	800
	Alarms	2 thresholds or limits according to USP
Others	Certification	Quality certificate provided EMC ASTM D5391-99; ASTM D1125, NIST N 50081-1& EN 50082-2 (RFI)
	Enclosure protection	EIEC 61010-1 (low voltage directive), IP65, NEMA4X

Delivery Supplied as standard with user manual, laminated quick programming guide, calibration certificates binder, tool for disconnecting the sample tubing's, 2 conversion fittings (DN8 into DN6), certified resistance.

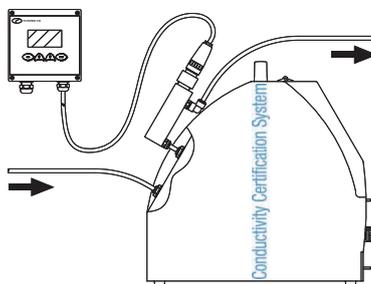
Verification and calibration of the POLYMETRON 9126 According ISO 10012-1 Guidelines on confirmation system, a yearly recalibration of the 9126 is recommended in our factory. Order # 09126=A=100

Documentation provided Optional binder with traceable COFRAC calibration certificates for yearly recalibration (includes detailed certificates on each instrument used in the recalibration process). Order # TE9126=A=000

Accessories Operators manual, quick guide flow chart, calibration certificate of the system, socket for supply cable, tool for plugs and sampling tube disconnection, 2xDN/DN6 reduction sleeves for connection to DN6 tubing.



In process calibration of a conductivity loop



Serial calibration of a conductivity loop

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