Dialysis Reference Meters

Performance comes from innovation

HDM97*Pocket*

Reference Meter Product Family

HDM97*BQ*
- Conductivity
- Temperature
- Pressure
- Flow

HDM97*BP*
- Conductivity
- Temperature
- Pressure
- pH

HDM97*BO*
- Conductivity
- Temperature
- Pressure

HDM97*BN*
- Conductivity
- Temperature

HDM97*BM*
- Pressure

HDM97*BL*
- Flow



Dialysis requires reliability and accuracy

Hemodialysis calls for high reliability and extreme accuracy. The HDM97*Pocket* Reference Meter series allows highly accurate and reliable measurement of conductivity, temperature, pressure, pH and flow. The device has been developed by specialists and integrates the know-how and experience of 30 years in the design of reference meters for dialysis. Intelligent product details along with innovative technology deliver great value.

Advanced technology

Advanced electronic technology combined with highly developed software results in a completely new type of measuring instrument with special features on a level of accuracy not achievable with other units. To achieve the highest conductivity measurement accuracy possible the conductivity temperature coefficient is selectable by dialysis machine manufacturer. A rechargeable Li-Ion-Polymer battery in combination with intelligent power management allows the meter to run continuously for more than 200 hours.

Details technicians are looking for

The guiding principle in the development of the HDM97*Pocket* was: "What are the daily needs of the busy dialysis technician?" The outcome is a collection of innovative details available only from IBP dialysis reference meters: Multifunctional Conductivity probe, long term data acquistion and pressure drop measurement mode are the features technicians are searching for.

Quality

The HDM97Pocket meters are produced under certified ISO 13485 quality management system. The HDM97Pocket reference meters are registered as medical devices in USA. We offer an annual calibration service traceable to PTB and NIST with certification in accordance with the ISO 17025 standard.

Applications

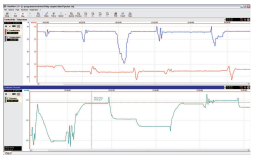
- Hemodialysis machines
- RO-Water Systems

Key Features

- Can be used with any brand of dialysis machine
- Selectable conductivity temperature coefficient for high accuracy conductivity measurement



- Allows conductivity measurement of RO water
- With special option blood pressure meters can be calibrated
- Timer function
- Pressure drop measurement
- Allows field calibration
- USB Computer Interface for data acquisition



- FDA 510(k) approval

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Specifications

Conductivity	*only version BN, BO, BP and BQ*
Range	0 … 30 mS/cm
Accuracy	0 … 200 uS/cm +/- 0.6 uS/cm
	201 … 2000 uS/cm +/- 6 uS/cm
	2 … 30.00 mS/cm
	12 … 16 mS/cm +/- 0.03 mS/cm
	otherwise +/- 0.06 mS/cm
	> 30 mS/cm +/- 1% from URV
	Temperature coefficient selectable.
Temperature	*only version BN, BO, BP and BQ*
Range	0 … 100 °C
Resolution	0.01 °C
Accuracy	25 … 40 °C +/- 0.05 °C
	otherwise +/- 0.1°C
Pressure	*only version BO, BP and BQ*
Units	mmHg, kPa, mbar, PSI - selectable
Range	-700 …1900 mmHg (2.5 Bar)
Resolution	0.1 mmHg
Accuracy	0 … 300 mmHg +/- 1 mmHg
	Otherwise +/- 2 mmHg
	Ceramic Sensor fluid resistant
	only version BM and option H for BO, BP and BQ
Range	-700 …1900 mmHg (2.5 Bar)
Resolution	0.01 mmHg
Accuracy	0 … 300 mmHg +/- 0.5 mmHg
	301 … 1000 mmHg +/- 1 mmHg
	Otherwise +/- 2 mmHg
Flow	*only version BL and BQ*
Range	100 … 2000 ml/min
Resolution	1 ml/min
Accuracy	100 … 500 ml/min +/- 1,5 % of MBE
	Otherwise +/- 2,5 % of MBE
pH	*only version BP*
Range	pH 0 … 14
Resolution	pH 0.01
Accuracy	pH +/- 0.02
Interface	USB 2.0 - electrically insulated

Power supply

Internal rechargeable LI-Ion-Polymer battery

External charger Input 100 … 245 V / 50/60 Hz

Output 5 V DC, 500 mA

Or via USB-Interface from a computer

Dimensions & Weight

165 x 82 x 33 mm - 6.5" x 3.2" x 1.3"

0.4 Kg - 0.88 lbs including probe

Details technicians are looking for



- Modern 4-pole electrode in carbon plastic technology for conductivity measurement. Years of experience have proven this design and construction absolutely linear and stable. The Electrode may be used either as a flow through or dip electrode. May also be used for testing RO water. The pressure connector has an automatic closure. This enables the measurement of dialysate pressure without any additional adapters.

Helpful options



- For pressure measurement optionally a higher accuracy is available which allows calibration of blood pressure measurement devices in accordance with DIN EN 1060.

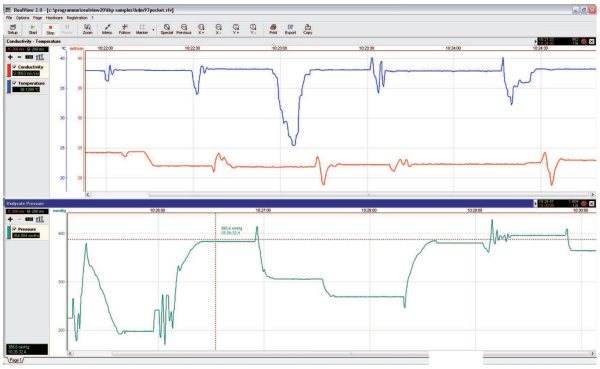


- A timer mode, with start stop function, allows to measure time period with a resolution of 100 msec
- The *BL* and *BQ* version allows flow measurement to calibrate dialysate flow as well blood and infusion pumps.

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- The HDM97*Pocket* meter has an USB interface for easy connection to a personal computer. The IBPView software allows the user to collect, store and visualize data taken from measurements with the HDM97*Pocket*.



- For pressure measurement on Fresenius machines an adapter is available.



- For convenient attachment of the meter to the infusion pole a fold-away holder is part of the meter. This movable holder also allows use of the meter in a tilt position on a flat surface.



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