

PAMAS 4132

Multipass Filter Test in Liquids Single Pass Filter Test in Liquids β -Ratio Analysis



PAMAS 4132 Filter test stand system

**Volumetric cell design of
PAMAS sensors guarantees
highest accuracy, resolu-
tion and best statistical
information**

**High concentration levels
in β -ratio applications**

- Simultaneous analysis in 2 x 32 channels
- Sensors can handle high pressures
- 1 μm sensitivity according to ISO 4402 (HCB-LD25/25)
- 3 $\mu\text{m(c)}$ sensitivity according to ISO 11171 (HCB-LD25/25)
- 0.5 μm sensitivity with Latex calibration (HCB-SC25/25)
- remotely adjustable thresholds
- Size ranges from 0.5 - 800 μm depending on sensors
- Different sensors for various applications
- Adaptable to any Multipass application and β -ratio analysis
- Particle concentrations of up to 200,000 p/ml at 10 ml/min

Integrated β -ratio analyzer with integrated sensor and complete flow control



PAMAS β -ratio analyzer integrated on-line box.

- one sensor and one counter in a box for highest flexibility and simplified cabling
 - box dimension
300mm x 300mm x 220mm with flow control, 200mm x 300mm x 330mm without flow control
 - advanced electronics to allow compact design and highest EMC compatibility,
 - Ethernet connection for data transmission to PC
 - Ethernet connection for galvanic isolation of PC.
 - fully digitized electronics with 4096 channels internally to improve detection
 - digital electronics to avoid warm up and aging degradation
 - can be used with all PAMAS sensors.
 - metering pump for flow control available (option)
- Calibration of sensors**
- **According to ISO 11171** with ISO MTD (NIST) in oil.
 - **Pulse height calibration** with latex standards, according to ANSI/NFPA T2.9.6R1-1990 and ASTM F 658-00.
 - **According to ISO 4402 with ACFTD.**
- Sensor resolution** test according to the ISO 11171 calibration standard.
- Please contact us for integration into your application.



For best results, PAMAS integrates counter, sensor and flow control in a shielded metal box (to avoid electrical interference).

Technical data

PAMAS 4132 counter:

Power:
100 - 240 V / 50 - 60
Hz 25VA

Data transfer: Ethernet

HCB-LD-50/50

Size range:
1 - 400 μ m (latex calibration)
1 - 100 μ m (ISO 4402)
4 - 70 μ m(c) (ISO 11171)
MPC: 24,000 p/ml at 25 ml/min*

HCB-LD-25/25

Size range:
1 - 200 μ m (latex calibration)
1 - 100 μ m (ISO 4402)
4 - 70 μ m(c) (ISO 11171)
MPC: 120,000 p/ml at 10 ml/min*

HCB-LD-15/25

Size range:
1 - 100 μ m (latex calibration)
1 - 100 μ m (ISO 4402)
3 - 70 μ m(c) (ISO 11171)
MPC: 200,000 p/ml at 10 ml/min*

Option:

A/D - D/A Interface box:

According to customer specifications, e.g.:
8 inputs 4 - 20 mA/12 bit
8 outputs 0 - 10 V/12 bit

Temperature:

Fluid temperature: 0 - 60°C

* Coincidence error less than 7.8% at defined flow rate (others can be selected)

All properties mentioned herein may change without being notified.

9001: 2000



DIN EN ISO 9001:2000

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