



PAMAS WaterViewer Online particle counter for water quality control

Particle measurement system with intgrated sensor, flow control, and sampling system

Standard features:

- Programming capabilities make the system as versatile as a Programmable Logic Controller
- True single particle counting
- Fully automated operation
- Standard size range: 1-100 µm
- Particle concentrations from 0 up to 200,000 p/ml
- Sensors with different size ranges available
- System easily connectable to analogue and digital devices
- Data transfer via ModBus

Optional features:

- Networking capabilities
- Expandable to multiple waterlines using automatic multiplexer Unit
- Automated sensor cleaning
- Multiple analogue and digital data interface
- Status and alarms can be communicated over light signals or SMS alert

PAMAS WaterViewer

Water analysis, trend monitoring, and data storage



The PAMAS WaterViewer is a measurement instrument that detects and analyses particle numbers over particle sizes in function of time. Accepting and storing both analogue and digital signals, it can be integrated into nearly any type of measurement system. It automatically responds to conditions exceeding a predetermined threshold and reacts through signal alert or automatic adaption of measurement routines.

Multiple data interfaces make it as versatile as a Programmable Logic Controller.

PAMAS WaterViewers can be combined on a network of measurement devices to control a complete water treatment plant.

The optional multiplexer unit and the sensor flushing unit are both fully controlled by the **PAMAS** WaterViewer. With the help of the multiplexer unit, a single measurement system can analyse multiple waterlines. The sensor flushing unit automatically removes contamination debris out of the sensor and sends a cleaning report to the user.

The modular design of the **PAMAS WaterViewer** makes it easy to adapt to the user's changing requirements.

PAMAS WaterViewer

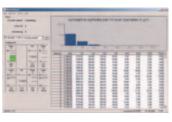
- Particle analysis in up to 8 size channels simutaneously
- Data storage in internal ringbuffer memory andlong-term storage on external computer
- Constant flow rate through sensor by meteringpump
- Communication ports for connection to external computer
- Flexible & programmable
- Can act as a Programmable Logic Controller (option)
- Automated sensor flushing (option) removes deposited
- Safety features for unattended long-term use
- Easy to connect
- Data storage in standard data format
- **21** CFR part 11 (option)



Equipped with a Multiplexer Unit, the PAMAS WaterViewer can analyse multiple waterlines.



For online condition monitoring, the PAMAS WaterViewer can be fixed to the wall. Equipped with an aluminium mounting rack, it can also be used for on-site measurements.



The software helps to handle huge amounts of measuring data and shows measuring reports in tables and graphs.



The display in graphs makes events and trends of particle numbers over size easily visible.



Technical data Sampling system:

Metering pump, wear resistant ceramic piston and cylinder

Counter system:

WaterViewer, 8 size ranges

Power supply:

Via alternating current (90-240 V or 50-60 Hz) or via direct current (12-30 V)

Volumetric Sensors: PAMAS HCB-LD-15/25

Size range: 1–100 µm Max. particle concentration: 200,000 p/ml* at 10 ml/min**

PAMAS HCB-LD-25/25

Size range: 1-200 µm Max. particle concentration: 120,000 p/ml* at 25 ml/min**

PAMAS HCB-LD-50/50

Size range: 1-400 µm Max. particle concentration: 24,000 p/ml* at 25 ml/min**

PAMAS HCB-LD-100

Size range: 2-800 µm Max. particle concentration: 1,200 p/ml* at 50 ml/min**

- at a coincidence rate of 7.8%
- ** Various flow-rates are available on request.

Housing:

IP 65

Relative humidity:

0 - 100%, even condensing

Pressure range:

0.5 - 4 bar

Size and weight:

standard equipment: 300 x 400 x 242 mm (W x H x D), approx. 11 kg

with multiplexer unit: 300 x 600 x 242 mm (W x H x D), approx. 17 kg

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