

METPOINT® FLM

PRECISE MEASUREMENT, DOCUMENTATION, ANALYSIS

The precise measurement of the actual flow rate provides the foundation for various analyses, documentations and decisions in connection with compressed air systems.

Possible overloading (e.g. excessive air velocities) or malfunctions can be quickly and reliably detected and this permits economically optimized dimensioning of the plant components.

Moreover, the exact allocation of consumption percentages to the different stages of production is of great value for making fact-based business management decisions.

And not least, the flow rate measurement will indicate the loss of compressed air due to leakage. An important economic factor considering that every third compressor only runs to compensate for the loss of air!

METPOINT® FLM can be simply and quickly installed – even under pressure conditions. With its variety of interfaces it is easy to integrate into existing process control systems.



+1:

+2:

+3:

+4:

+5:



**INSTALLATION/REMOVAL
EVEN UNDER PRESSURE**

**CONNECTABLE
FROM 1/4" TO 10" *1**

PLUG & PLAY

**INCL. DATA LOGGER
(1M MEASURED VALUES)**

SIMPLE PC LINK (USB)*2

*1 10" depending on ball valve employed

*2 optional software required

METPOINT® FLM

TECHNICAL DATA



TECHNICAL DATA OF DISPLAY DD109

Size of wall-mounted housing	Measurements: 118 mm x 115 mm x 93 mm
Size of switch cabinet installation	Measurements: 92 mm x 92 mm
Housing protection standard	IP 65
Operation temperature	0 ... 50°C
Transport temperature	-20 ... 70 °C
Sensor inputs	2 inputs for dewpoint and consumption probes (optional 2 Analoginputs)
Interface	USB
Keypad	4 keys
Power supply	100 240 VAC / 50-60 Hz / 10 VA
Display	Grafic display, 160 x 100 pixels
Alarm output	2 relays, 230 VAC, 3 A, potential-free, changeover contact
Analog output	Connection of 4 ... 20 mA signals of dewpoint and consumption sensors, (max. burden <500 Ohm)
Integrated data logger	<ul style="list-style-type: none"> • up to 1.000.000 values • recording interval, min. 1 Sec., max. 59 min. 59 Sec.



TECHNICAL DATA OF FLOWSENSOR FS109

Measured quantities	Standard-settings: m ³ /h, m ³ and m/s If desired, BEKO TECHNOLOGIES GmbH can also program additional units. Flow rate: m ³ /min, l/min, l/s, cfm Mass flow: kg/s, kg/min, kg/h Consumption: l, cf, kg
Measuring principle	Calorimetric measurement
Sensor	Pt45, Pt1000
Measured medium	Air, gases
Working temperature range	-30... 140 °C sensor tube -30... 80 °C housing
Air humidity of measured medium	Max. 90 % rel.h. (no water droplets)
Operating pressure	up to 50 bar
Housing material	Plastic PC + ABS
Material of sensor tube and threaded fittings	Stainless steel 1.4301
Protection class	IP65
Dimensions (B x H x T)	62 x 415 x 74,5 mm
Internal thread	G½" (ISO 228/1)
Weight	630 g
Power supply:	Supply via DD109
Analog output:	4... 20 mA (burden < 500 Ohm) Accuracy 0.06 mA
Pulse output	1 pulse per m ³ Active signal max. current I = 10 mA
Accuracy (with measurement section)	± 3 % v.M.
Accuracy (without measurement section)	± 4 % v.M.

