METPOINT® FLM compact
END-USER-SPECIFIC RECORDING, DOCUMENTATION, ANALYSIS

Every third compressor is only operated to compensate air losses. These costs can be avoided to a large extent. One possibility for this is the precise recording of the current volume flow. This offers the basis for many important analyses, documentations and decisions.

With the METPOINT® FLM compact, BEKO offers precise point-of-use monitoring. It protects equipment, for example against possible overload as a result of flow rates which are too high. Fast detection of malfunctions and leaks is also ensured. The measured values are the basis for maintenance and optimisation of production plants.

Furthermore, the exact assignment of consumption shares to individual production stages offers possibilities for fact-based, economic decisions. Various interfaces allow the smooth integration into existing process-control systems.

+1: DIRECT POINT-OF-USE MONITORING

+2: PLUG & PLAY

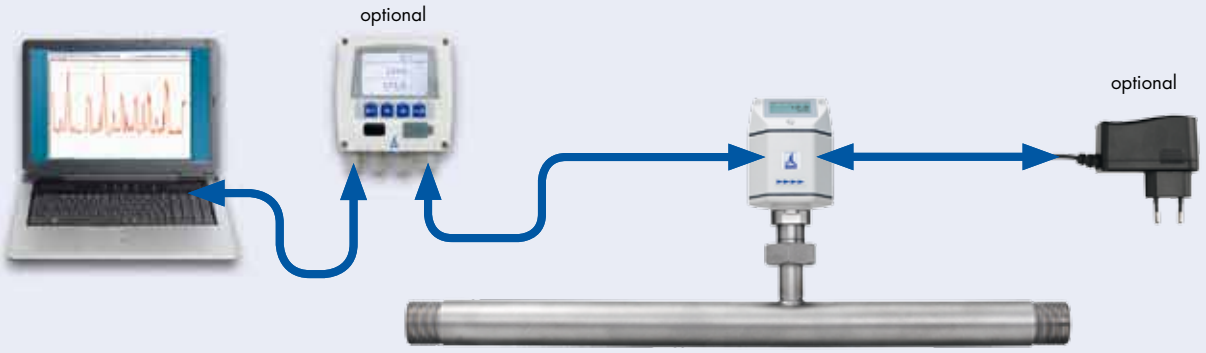
+3: READY-TO-FIT UNITS INCL. MEASURING SECTION

+4: INTEGRATED DISPLAY

+5: VERSATILE

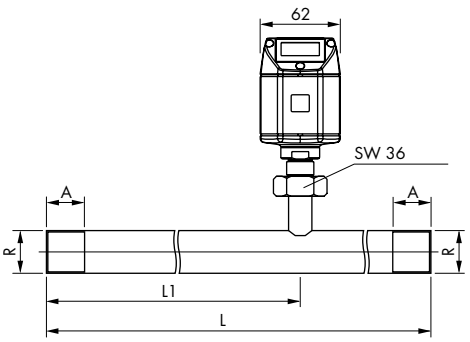
METPOINT® FLM compact

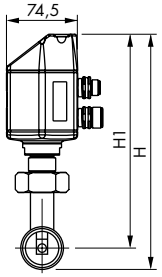
TECHNICAL DATA



TECHNICAL DATA METPOINT® FLM compact R¼" - R 2"

Measured parameters	Flow, consumption and velocity Reference setting in the factory: DIN 1945/ ISO 1217 (20 °C / 1000 mbar)
Units	Standard settings: m³/h, m³ und m/s With the display menu, other units can be set.
Measuring principle	Calorimetric measurement
Sensor	Pt45, Pt1000
Measuring medium	Air, gases
Employment temperature	0 ... 50 °C
Air humidity measuring medium	Max. 90 % rh (no drops of water)
Operating pressure	up to 16 bar
Material Housing	Plastics PC + ABS
Material sensor tube	Stainless steel 1.4301
Material measuring section	Version with connection thread: stainless steel 1.4301 or 1.4404
Seal	O-Ring (21 x 2) mm
Measuring unit/meas. section	Material: P990/ NBR 90
Protection class	IP65
Mounting thread	R¼", R½", R¾", R1", R1¼" R1½", R2"
Power supply	DIN EN 10226 (ISO 7-1) 12 to 30 VDC Supply via the optional AC adaptor plug or the DD 109
Power consumption	max. 80 mA bei 24 VDC
Analogue output	4 ... 20 mA (load <500 Ohm), Precision: 0.06 mA
Pulse output	1 Impuls per m³ or per l, pulse output potential-free, Switching capacity max. 30 VDC, 20 mA
Precision	± 1.5 % of measured valve ± 0.05 % of full scale





MEASURING SECTION WITH THREADED END FITTING

Pipe size	R inch	AD/ ID mm	L mm	L1 mm	H mm	H1 mm	A mm	Range	
DN 8	R¼"	13,7/8,5	194	137	176,0	165,7	15	0,8...90	l/min
DN 15	R½"	21,3/16,1	300	210	176,4	165,7	20	0,2...90	m³/h
DN 20	R¾"	26,9/21,7	475	275	179,2	165,7	20	0,3...170	m³/h
DN 25	R1"	33,7/27,3	475	275	182,6	165,7	25	0,5...290	m³/h
DN 32	R1¼"	42,4/36,0	475	275	186,9	165,7	25	0,7...480	m³/h
DN 40	R1½"	48,3/41,9	475	275	189,9	165,7	25	1...550	m³/h
DN 50	R2"	60,3/53,1	475	275	195,9	165,7	30	2...900	m³/h

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