

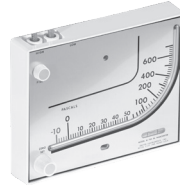
Accessories



AF-01/001
DPS key lock



AF-01/002
FR key lock



AF-02/001
Mark II pressure gauge



AF-02/002, AF-02/003,
AF-02/004, AF-02/005,
AF-02/006
Magnehelic pressure gauge



AF-02/007, AF-02/008,
AF-02/009
Photohelic pressure gauge



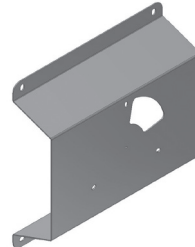
AF-02/010, AF-02/011
Digihelic pressure gauge



AF-02/012
Digihelic (3-in-1) pressure
gauge



AF-03/001
02/002-02/006 pressure
gauge holder



AF-03/002
02/007-02/011 pressure
gauge holder



AF-04/001, 04/002, 04/003
Pressure switch

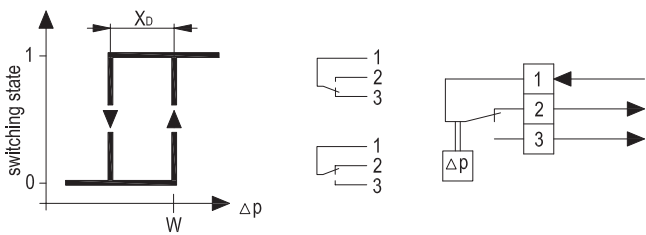
Table 1: Pressure gauge table

Technical Data	AF-02/001	AF-02/002, AF-02/003, AF-02/004, AF-02/005, AF-02/006	AF-02/007, AF-02/008, AF-02/009	AF-02/010, AF-02/011	AF-02/012
Description	Mark II pressure gauge	Magnehelic pressure gauge	Photohelic pressure gauge	Digihelic pressure gauge	Digihelic (3-in-1) pressure gauge
Type Accuracy	analogue ±3 % full scale	analogue ±2 % full scale	Analogue ±2 % full scale	Digital ±0.5 % at 25 °C	Digital ±0.5 % at 25 °C
Pressure range	10-0-700 Pa	AF-02/002 ... 0-250 Pa AF-02/003 ... 0-500 Pa AF-02/004 ... 0-750 Pa AF-02/005 ... 0-1000 Pa AF-02/006 ... 0-1500 Pa	AF-02/007 ... 0-500 Pa AF-02/008 ... 0-750 Pa AF-02/009 ... 0-1000 Pa	AF-02/010 ... 0-622.75 Pa AF-02/011 ... 0-1245.5 Pa	0-1245 Pa
Pressure connection	1/8" female NTP	1/8" female NTP	1/8" female NTP	1/8" female NTP	2 male NTP 1/8" plugs for tube ø4 up to ø6
Standard accessories	2 male NTP 1/8" plugs for tube ø4 up to ø6	2 male NTP 1/8" plugs for tube ø4 up to ø6	2 male NTP 1/8" plugs for tube ø4 up to ø6	2 male NTP 1/8" plugs for tube ø4 up to ø6	/
Temperature range	max. 60 °C	-6.67 to 60 °C	-6.67 to 60 °C	0 to 60 °C	0 to 60 °C
Housing material	ABS plastic	die cast aluminum case	die cast aluminum case	die cast aluminum case	ABS plastic
Electrical connection	/	/	8 wire cable	male 15 pin d-Sub	screw terminals
Operative voltage	/	/	24 VDC±10 %	12-28 VDC or 12-28 VAC 50-400Hz	High voltage power: from 100 to 240 VAC 50 to 400 Hz or from 132 to 240 VDC Low voltage power: 24 VDC ±20 %
Relay	/	/	Switch type: each setpoint has a solid state relay Switching voltage: 20-280 VAC (47-63 Hz) Switching current: 0.01 – 1 A	Switch type: 2 SPDT relay Electrical rating: 1 A @ 30 VAC/VDC	Switch type: 2 SPDT relay Electrical rating: 8 A @ 240 VAC
Agency approvals	/	/	CE	CE	CE, UL
Communication	/	/	/	/	Modbus® RTU, RS485, 9600 baud.
Output	/	/	/	4-20 mA DC into 900 ohms max.	4-20 mA DC into 900 ohms max.

Table 2: Pressure switch table

Technical Data	AF-04/001	AF-04/002	AF-04/003
Description	Pressure switch	Pressure switch	Pressure switch
Type	QBM81-3	QBM81-5	QBM81-10
Accuracy	< ±2.5 Pa	< ±5 Pa	< ±10 Pa
Pressure range	20...300 Pa	50...500 Pa	100...1000 Pa
Pressure connection	Male, ø 6.2 mm	Male, ø 6.2 mm	Male, ø 6.2 mm
Standard accessories	/	/	/
Temperature range	- 30 ... + 84 °C	- 30 ... + 84 °C	- 30 ... + 84 °C
Housing material	Polycarbonate, PVC, ABS	Polycarbonate, PVC, ABS	Polycarbonate, PVC, ABS
Electrical connection	3 screw terminals	3 screw terminals	3 screw terminals
Operative voltage	/	/	/
Relay	Switch type: single-pole change-over Switching voltage and current: AC/DC 24 V ≥ 0,01 A AC 250 V, ≤ 5 (0,8) A	Switch type: single-pole change-over Switching voltage and current: AC/DC 24 V ≥ 0,01 A AC 250 V, ≤ 5 (0,8) A	Switch type: single-pole change-over Switching voltage and current: AC/DC 24 V ≥ 0,01 A AC 250 V, ≤ 5 (0,8) A
Agency approvals	CE conformity to (Low-voltage directive 2006/95/EC)	CE conformity to (Low-voltage directive 2006/95/EC)	CE conformity to (Low-voltage directive 2006/95/EC)
Communication	/	/	/
Output	/	/	/

Picture 1: Pressure switch function diagram and connection terminals



Legend:

- 1 Phase
- 2 Switch position 1-2: lower pressure
- 3 Switch position 1-3: higher pressure
- X_p Switching difference
- Δp Pressure difference
- W Switching point, top

Ordering key

AF – 01 / 001

1 2

1 Type

AF

2

	Keys for locks	01/001	DPS
		01/002	FR
	Pressure gauge	02/001	Mark II
		02/002	Magnehelic 0-250 Pa
		02/003	Magnehelic 0-500 Pa
		02/004	Magnehelic 0-750 Pa
		02/005	Magnehelic 0-1000 Pa
		02/006	Magnehelic 0-1500 Pa
		02/007	Photohelic 0-500 Pa
		02/008	Photohelic 0-750 Pa
		02/009	Photohelic 0-1000 Pa
		02/010	Digihelic 0-622.75 Pa
		02/011	Digihelic 0-1245.5 Pa
		02/012	Digihelic (3-in-1) 0-1245 Pa
	Holders for pressure gauges	03/001	02/002 – 02/006
		03/002	02/007 – 02/011
		03/003	02/012
	Pressure switches	04/001	SI QBM81-3 (20-300 Pa)
		04/002	SI QBM81-5 (50-500 Pa)
		04/003	SI QBM81-10 (100-1000 Pa)

Note:
 When choosing pressure gauge you have to connect it with ø6/ø4 tube.