

FOR FINE PRESSURE AND FLOW MEASUREMENT

Relative and differential pressure switch type 604

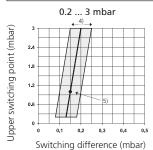
Pressure range 0.2 ... 3 – 50 mbar

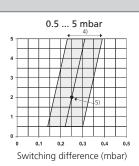


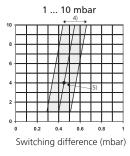
The type 604 pressure switch is used as a Δp flow switch in ventilation ducts for the control of filters and fans, and in primary and secondary control systems for the control of air dampers. The 604 pressure monitoring switches are also ideally suited to protect heating coils from overheating and for monitoring industrial air cooling circuits.

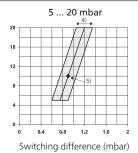
- Easy to install
- Combi-bracket for vertical or horizontal installation
- User friendly snap cover
- Case geometry allows easy cable lead-in
- Cable strain relief integrated in PG11
- High adjustment accuracy through individual laser etched scale
- Long-term stability of switching points through trapezoidal bead diaphragm
- Multi-layer gold plated contact

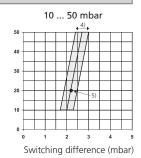
Pressure range			
elative and differential			0.2 3 – 50 mbar
No. of the case Patrice			
Pperating conditions Medium			Air and neutral gases
viedidili		Medium / ambient	-30 +85 °C
emperature		Storage	-30 +65 °C -40 +85 °C
			75 mbar
olerable overload on one side		-30 +75 °C	
		-30 +85 ℃	50 mbar
Materials in contact with the mediu	ım		
ensor			Silicon LSR 1)
Case			PC 10% GF
over			PC
Electrical overview			
		Resistive load	5 A at 250 VAC
Switching load ?)		nesistive load	4 A at 30 VDC
switching load ²⁾		Inductive 3)	0.8 A at 250 VAC
		inductive "	0.7 A at 30 VDC
Contact system		Changeover switch	
Service life		mechanical	> 10 ⁶ switching cycles
		_ 90****	- ·- J -y -1
Protection standard			ID 00
Without cover			IP 00
Vith cover			IP 54 / IP 65
Repeatability			
i ap a da a a a a a a a a a a a a a a a a	0.2 3 mbar		± 0.025 mbar
	0.5 5 mbar		± 0.05 mbar
	1 10 mbar		± 0.05 mbar
Setting range		between	
	5 20 mbar		± 0.05 mbar
	10 50 mbar		± 0.15 mbar
Electrical connection			
Screw terminals			
A A A D			6.3 mm
AMP connectors			4.8 mm
Pressure connections			
Pipe			Ø 6.2 mm
nside thread			G 1/8
iisiue tiiiedü			J /8
nstallation arrangement			
Recommendation (Factory set)	Vertical, pressure connections facing do		
	Horizontal, cover facing downwards – S	witching points approx. 11 Pa lower than on s	scale
		ching points approx. 11 Pa higher than on scl	
Tests / Admissions			
JL			MFHX2/8 or XAAK2/8
OVGW			acc. to DIN EN 1854
C type examination certificate			CE-0085AP0974
ow voltage directive			2006/95/EC
Gas appliance directive			2009/142/EC
			20031.12.20
Weight			
Without bracket			~ 93 g
With combi-bracket type C			~ 143 g
Packaging (Please state on order)			
Single packaging in cardboard Multiple packaging in cardboard			20 / 30 / 40 / 50 / 60 / 100 / 320 pcs











 $^{^{3)}}$ 6-fold starting current cos ϕ 0.6)

Compact A/C set (standard)	Setting range (mbar)	Connection set	Order number
Consisting of switch with hose connection Ø 6.2 mm, scale in mbar, screw	0.2 3 mbar	Fig. 1 (Metal)	604.9000001
terminals, multi-layer contact up to 5 A (suitable for DDC), combi-bracket type	0.5 5 mbar	Fig. 1 (Metal)	604.9100001
C and hose connection set, single packaging.	1 10 mbar	Fig. 1 (Metal)	604.9200001
	0.2 3 mbar	Fig. 2 (Plastic)	604.9000002
	0.5 5 mbar	Fig. 2 (Plastic)	604.9100002
	1 10 mbar	Fig. 2 (Plastic)	604.9200002
	10 50 mbar	Fig. 2 (Plastic)	604.9500002

					1_	2	3	4	5_	6 _	7_	8_
Order code selecti	ion table			604	. X	X	Χ	Χ	Χ	X	X	Χ
	Standard version				9							
Version	UL version				S							
	0.2 3 mbar	20 300 Pa	0.08 1.2 inH₂O	0.08 1.2 inWC		0						
Setting range	0.5 5 mbar	50 500 Pa	0.2 2 inH₂O	0.2 2 inWC		1						
	1 10 mbar	100 1000 Pa	0.4 4 inH ₂ O	0.4 4 inWC		2						
	5 20 mbar	500 2000 Pa	2 8 inH₂O	2 8 inWC		4						
	10 50 mbar	1000 5000 Pa	4 20 inH₂O	4 20 inWC		5						
	Scale in mbar						0					
	Scale in Pa						1					
	Scale in inH₂O						2					
	Scale in inWC						6					
Scale 1)	Without Scale	(rating plate in mbar)					3					
	Without Scale	(rating plate in Pa)					4					
	Without Scale	(rating plate in inH ₂ O)					5					
	Without Scale	(rating plate in inWC)					7					
	Pipe Ø 6.2 mm	without pressure tip orifi	ce					0				
	Pipe Ø 6.2 mm	with pressure tip orifice of	on P2					1				
Pressure connections	Inside thread G 1/8	without pressure tip orifi	ce					2				
	Inside thread G 1/8	with pressure tip orifice of	on P2					3				
	Screw terminals								0			
Electronical connection	AMP connector 6.3 mm								1			
	AMP connector 4.8 mm								2			
	With cover	combi bracket type C	IP 54							0		
	With cover	bracket type A	IP 54							1		
Cover / Bracket	With cover	bracket type B	IP 54							2		
	With cover	without bracket	IP 54							3		
	Without cover	combi bracket type C								5		
	Without cover	bracket type A								6		
	Without cover	bracket type B								7		
	Without cover	without bracket								8		
	With cover	combi bracket type C	IP 65		9					Α		
	With cover	bracket type A	IP 65		9					В		
	With cover	bracket type B	IP 65		9					C		
	With cover	without bracket	IP 65		9					D		
	Without										0	
Connection kit	With connection set (met	al), 90° angled	incl. tube 2 m long (F	Fig. 1)							1	
	With connection set (plas		incl. tube 2 m long (F	Fig. 2)							2	
Switching points	Two factory set switching	points	(please specify on ord	der)								W
(optional)	One factory set switching		(please specify on ord									R
(optional)	One factory set switching point low		(please specify on ord	der)								U

Accessories		
/ tecessories		Order number
Connection kit for vent duct (metal), 90° angled	including tube 2 m long (Fig. 1)	104312
Connection kit for vent duct (plastic), straight	including tube 2 m long (Fig. 2)	100064
Bracket type A		100295
Bracket type B		100098
Combi-bracket type C		100106
Attachment ring		110005
Attachment ring close		110006
Special screws for fastening bracket to switch	(2 screws per switch required)	102976
Fastening clip for bracket A, B, C or direct mounting	for wall thickness 0.8 1.1 mm	100294
rasterling clip for bracket A, B, C or direct mounting	for wall thickness 1.8 2.1 mm	100293
Calibration certificate		104551

¹⁾ For customer specific calibration without scale and with fixed scale

