

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

Technical overview			
Pressure range			
Relative and differential			0.2 3 – 50 mbar
Operating conditions			
Medium			Air and neutral gases
Tomporature		Medium / ambient	-30 +85 ℃
Temperature		Storage	-40 +85 ℃
Tolerable overload on one side		-30 +75 °C	75 mbar 50 mbar
		-30 +85 °C	50 mbar
Materials in contact with the me	edium		
Sensor			Silicon LSR 1)
Case			PC 10% GF
Cover			PC
Electrical overview			
2.000.001 0001 01000		Designation I and	5 A at 250 VAC
C Malifer I II		Resistive load	4 A at 30 VDC
Switching load ⁾		Inductive 3)	0.8 A at 250 VAC
			0.7 A at 30 VDC
Contact system		Changeover switch	406 - 101 100 - 10
Service life		mechanical	> 10 ⁶ switching cycles
Protection standard			
Without cover			IP 00
With cover			IP 54 / IP 65
Popostability			
Repeatability	0.2 3 mbar		± 0.025 mbar
	0.5 5 mbar		± 0.05 mbar
Setting range	1 10 mbar	between	± 0.05 mbar
Setting range	5 20 mbar	between	± 0.05 mbar
	10 50 mbar		± 0.15 mbar
Electrical connection			
Screw terminals			
			<u>6.3 mm</u>
AMP connectors			4.8 mm
Pressure connections			
Pipe			Ø 6.2 mm
Inside thread			G 1/8
Installation arrangement	Vertical procesure connections for in-	ou municipale	
Recommendation (Factory set)	Vertical, pressure connections facing de	ownwards Switching points approx. 11 Pa lower than on s	scalo
		tching points approx. 11 Pa lower than on sl tching points approx. 11 Pa higher than on scl	
		J J J L L L L L L L L L L L L L L L L L	
Tests / Admissions			MELINO O ANA MONO
UL DVGW			MFHX2/8 or XAAK2/8
EC type examination certificate			acc. to DIN EN 1854 CE-0085AP0974
EC type examination certificate			CE-0003AY09/4

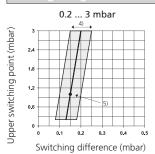


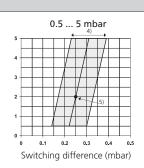
Low voltage directive Gas appliance directive

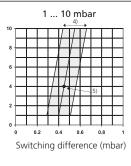
Weight Without bracket With combi-bracket type C

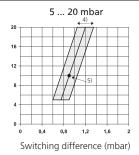
Packaging (Please state on order) Single packaging in cardboard

Multiple packaging in cardboard





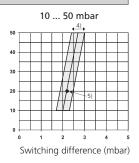




2006/95/EC 2009/142/EC

~ 93 g ~ 143 g

20 pcs 100 pcs 320 pcs



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			6	7	8
Order code selecti	on table			604	. X	Χ	Χ	Χ	Χ	Χ	Χ	X
	Standard version				9							
Version	UL version				S							
	ETL version				E							
	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 inH ₂ O	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 inH ₂ O	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 inH ₂ O						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 orifice)					0				
Pressure connections	Pipe Ø 6.2 mm	with pressure tip orifice on						1				
	Inside thread G 1/8	without pressure tip orifice						2				
	Inside thread G 1/8	with pressure tip orifice on						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		
	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		
Cover / Bracket	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					С		
	With cover	without bracket	IP 65		9					D		
	Without				_						0	_
Connection kit	With connection set (metal),	90° angled	incl. tube 2 m long (F	ia. 1)							1	
	With connection set (plastic)		incl. tube 2 m long (F								2	\neg
	Two factory set switching po		(please specify on ord									W
Switching points	One factory set switching po		(please specify on ord								\neg	R
(optional) One factory set switching point low			(please specify on ord									U

Accessories		
		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
Factoring clip for hypothet A. D. C. or direct mounting	for wall thickness 0.8 1.1 mm	100294
Fastening clip for bracket A, B, C or direct mounting	for wall thickness 1.8 2.1 mm	100293
Calibration certificate		104551

