

FOR FINE PRESSURE AND FLOW MEASUREMENT

## Relative and differential pressure switch type 604

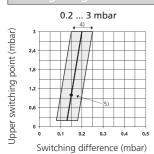
Pressure range 0.2 ... 3 – 50 mbar

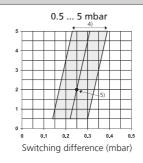


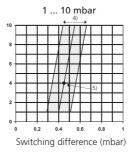
The type 604 pressure switch is used as a  $\Delta p$  flow switch in ventilation ducts for the control of filters and fans, and in primary and secondary control systems for the control of air dampers. The 604 pressure monitoring switches are also ideally suited to protect heating coils from overheating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

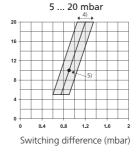
- Easy to install
- Combi-bracket for vertical or horizontal installation
- User friendly snap cover
- Case geometry allows easy cable lead-in
- Cable strain relief integrated in PG11
- High adjustment accuracy through individual laser etched scale
- Long-term stability of switching points through trapezoidal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

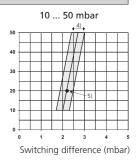
Technical overview			
ressure range			
elative and differential			0.2 3 – 50 mbar
Operating conditions			
Medium			Air and neutral gases
[emperature		Medium / ambient	-30 +85 °C
emperature		Storage	-40 +85 °C
Tolerable overload on one side		<u>-30 +75 °C</u> -30 +85 °C	75 mbar 50 mbar
Materials in contact with the medi	ium		
ensor			Silicon LSR 1)
Case			PC 10% GF
Cover			PC
lectrical overview			
		Resistive load	5 A at 250 VAC 4 A at 30 VDC
Switching load <sup>)</sup>		Inductive 3)	0.8 A at 250 VAC
			0.7 A at 30 VDC
Contact system		Changeover switch	406 - '1-1'1
Service life		mechanical	> 10 <sup>6</sup> switching cycles
Protection standard			
Vithout cover			IP 00
Vith cover			IP 54 / IP 65
Repeatability	0.2 3 mbar		. 0.035
	0.2 3 mbar 0.5 5 mbar		± 0.025 mbar ± 0.05 mbar
	1 10 mbar		± 0.05 mbar
etting range	5 20 mbar	between	± 0.05 mbar
	10 50 mbar		± 0.05 mbar
lectrical connection			
screw terminals			6.2 mm
AMP connectors			6.3 mm 4.8 mm
			4.0 11111
Pressure connections			
Pipe			Ø 6.2 mm
nside thread			G 1/8
nstallation arrangement			
Recommendation (Factory set)	Vertical, pressure connections facing d		
	Horizontal, cover facing downwards –	Switching points approx. 11 Pa lower than on :	scale
	Horizontal, cover facing upwards – Swi	tching points approx. 11 Pa higher than on scl	ae
ests / Admissions			
JL			MFHX2/8 or XAAK2/8
VGW			acc. to DIN EN 1854
C type examination certificate			CE-0085AP0974
ow voltage directive			2006/95/EC
Gas appliance directive			2009/142/EC
Veight			
Vithout bracket			~ 93 q
Vith combi-bracket type C			~ 143 g
THE COMBINET BIGGET CAPE C	-		
Packaging (Please state on order)			
Packaging (Please state on order) Single packaging in cardboard			_20 pcs
Packaging (Please state on order)			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 C and hose connection set, single packaging.	0.5 5 mbar	Fig. 1 (Metal)	604.9100001
	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 selection	on table			604	. X	Χ	Χ	Χ	Χ	Χ	Χ	Χ
	Standard version				9							
Version	UL version				S							
	ETL version				E							$\overline{}$
Setting range	0.2 3 mbar	20 300 Pa	0.08 1.2 inH <sub>2</sub> O	0.08 1.2 inWC	_	0						-
	0.5 5 mbar	50 500 Pa	0.2 2 inH <sub>2</sub> O	0.2 2 inWC		1						
	1 10 mbar	100 1000 Pa	0.4 4 inH <sub>2</sub> O	0.4 4 inWC		2						-
	5 20 mbar	500 2000 Pa	2 8 inH <sub>2</sub> O	2 8 inWC		4						
	10 50 mbar	1000 5000 Pa	4 20 inH <sub>2</sub> O	4 20 inWC		5						
	Scale in mbar		7 2020	20			0					
	Scale in Pa						1					
	Scale in inH <sub>2</sub> O						2					-
	Scale in inWC						6					
Scale 1)	Without Scale	(rating plate in mbar)					3					
	Without Scale	(rating plate in Pa)					4					$\neg$
	Without Scale	(rating plate in inH <sub>2</sub> O)					5					$\neg$
	Without Scale	(rating plate in inWC)					7					$\neg$
	Pipe Ø 6.2 mm	without pressure tip orifice	,					0				
	Pipe Ø 6.2 mm	with pressure tip orifice on						1				$\neg$
Pressure connections	Inside thread G 1/8	without pressure tip orifice						2				$\neg$
	Inside thread G 1/8	with pressure tip orifice on	1 P2					3				
	Screw terminals								0			$\neg$
Electronical connection	AMP connector 6.3 mm								1			
	AMP connector 4.8 mm								2			$\neg$
	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		$\neg$
	With cover	combi bracket type C	IP 65		9					Α		$\neg$
	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		
Connection kit	Without										0	
	With connection set (metal),	90° angled	incl. tube 2 m long (f	Fig. 1)							1	$\neg$
	With connection set (plastic),	straight	incl. tube 2 m long (F	Fig. 2)							2	
Switching points (optional)	Two factory set switching poi	nts	(please specify on or									W
	One factory set switching poi	nt high	(please specify on or	der)								R
	One factory set switching poi	nt low	(please specify on or	der)								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	
Fortunity of the bounded A. D. C. and insert an austine	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	

