PRESSOSTAT

Swiss based Trafag is a leading international supplier of high quality sensors and monitoring instruments for measurement of pressure and temperature.



Æx>

Applications

Potentially explosive atmosphere

Features

- Compact design
- Rugged housing
- Protection IP65
- Any mounting position possible
- May be used as "simple apparatus" in zones at risk of explosions

Technical Data			
Measuring principle	Bellow	Repeatability	± 1.0 % FS typ.
Measuring range	-0.9 1.5 to 10 100 bar	Media temperature	-40°C +150°C
Output signal	1 Floating change-over contact (SPDT)	Ambient temperature	-25°C +70°C
Switching differential	Not adjustable	Approval / conformity	EN60730-1/ EN60730-2-6: Typ 2.B.H EN60079-0, EN60079-11 Zone 1 and 2, 21 and 22

Switzerland

Industriestrasse 11 8608 Bubikon Tel. +41 44 922 32 32 Fax +41 44 922 32 33

www.trafag.com trafag@trafag.com



Subject to change

Ordering information/type code

Custom build code	Switch point indicator behind cover						904							
Microswitch	With gold plated contacts, switching differential not adjustable							71						
Range	Range [bar]		Burst press [bar]	sure		Range [bar]	Over [bar]	•	Burst pres [bar]	sure				
	-0.9 1.5	10	13		72	1 16	24		36		79			
	0.2 1.6	10	13		73	2 25	40	-	75		80			
	0.2 2.5	10	13		75	4 40	40		75		81			
	0 4	12	26		76	6 60	100		160		82			
	0 6	12	26		77	10 100	100		160		83			
	1 10	24	36		78									
Sensor	Sensor material	Sensor housing material	Thread	Range		Sensor mater	iai	Sensor housing material	² Inre		Range			
	Bronze bellow (CuSn6)	Brass (CuZn39Pb3)	G1/4" female	72	900	(CuSn6)		Brass chemically nickel plated	mal	е	72	959		
	Bronze bellow (CuSn6)	Brass (CuZn39Pb3)	G1/4" female	73, 75	901	(CuSn6)		Brass chemically nickel plated	mal	е	73, 75	952		
	Bronze bellow (CuSn6) Bronze bellow	Brass (CuZn39Pb3)	G1/4" female G1/4"	76 ,77	903	(CuSn6) Bronzo bollow		Brass chemically nickel plated Brass chemically	mal	e 2"	76, 77	954		
	(CuSn6) Bronze bellow	Brass (CuZn39Pb3)	female G1/4"	78, 79	905	(CuSn6) Bronze bellow		nickel plated Brass chemically	mal	e 2"	78, 79	956		
	(CuSn6) Stainless steel	Brass (CuZn39Pb3)	female G1/4"	80, 81	907	(CuSn6)		nickel plated	mal	e ⁄/"	80, 81	958		
	1.4435 Bronze bellow	Brass (CuZn39Pb3)	female G1/2"	82,83	94(1.4435 Stainloss steel		Brass nickel plat	ed fem	ale ⁄/"	72	800		
	(CuSn6) Bronze bellow	Brass (CuZn39Pb3)	male G1/2"	72 73,75	909 902	1.4435 Stainloss stool		Brass nickel plat Brass nickel plat	C1/	ale 4"	73,75 76,77	801 803		
	(CuSn6) Bronze bellow	Brass (CuZn39Pb3) Brass (CuZn39Pb3)	male G1/2"	76,77	902	Stainless steel		Brass nickel plat	G1/	aie 4"	78,79	805		
	(CuSn6) Bronze bellow	Brass (CuZn39Pb3)	male G1/2"	78,79	900	1.4435 Stainless steel		Brass nickel plat	G1/	aie 4"	80, 81	807		
	(CuSn6) Bronze bellow (CuSn6)	Brass (CuZn39Pb3)	male G1/2" male	80, 81	908	1.4435 Stainless steel 1.4435		Brass nickel plat	C1/	aie 4"	82, 83	840		
	Stainless steel	Brass (CuZn39Pb3)	G1/2" male	82, 83	94 ⁻	Stainlass staal		Brass nickel plat	G1/	2"	72	809		
	Bronze bellow (CuSn6)	Brass chemically nickel plated	G1/4" female	72	950	Stainlass staal		Brass nickel plat	G1/	2"	73, 75	802		
	Bronze bellow (CuSn6)	Brass chemically nickel plated	G1/4" female	73, 75	951	1.4435		Brass nickel plat	ed G1/2 mal	2" e	76 ,77	804		
	Bronze bellow (CuSn6)	Brass chemically nickel plated	G1/4" female	76 ,77	953	1.4435		Brass nickel plat	IIIdl	е	78, 79	806		
	Bronze bellow (CuSn6)	Brass chemically nickel plated	G1/4" female	78, 79	95	1.4435		Brass nickel plat	mai	е	80, 81	808		
	Bronze bellow (CuSn6)	Brass chemically nickel plated	G1/4" female	80, 81	957	, Stainless steel 1.4435		Brass nickel plat	ed G1/ mal		82, 83	841		
ixation	Direct on sensor or	-											00	
	With mounting bra	icket											31	
Accessories	Sealing switchpoint (manipulation protection) 16													

Optional accessories of third party supplier

Ex-i barriers are suitable for intrinsically safe applications. The device transmits binary signals from the hazardous area into the safe area.

Ex-i-barriers: 24 VDC U ₀ = 10.5 V/ I ₀ = 13 mA/ P ₀ = 34 mW =	ZEN24VDC
Ex-i-barriers: 230 VAC $U_0 = 10.6 \text{ V/ }I_0 = 19.1 \text{ mA/ }P_0 = 51 \text{ mW} =$	ZEN230VAC

Pressostats, when combined with a certified Ex-barrier (see "optional accessories of third party supplier"), can be used as "simple electrical apparatus" in Zone 1 and 2, as well as in Zone 21 and 22, according to IEC/EN 60079-14. These pressostats are not suitable for Zone 0 and Zone 20. Use in safety relevant applications (approved electrical apparatus) is not permitted.

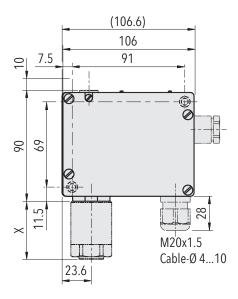


Specifications				
Accuracy	Repeatability	± 1.0 % FS typ.		
	Scale accuracy typ.	± 2.0 % FS typ.		
	Switching differential	See table		
	Adjustment range switchpoint ¹⁾	10% 90% FS		
Environmental conditions	Ambient temperature	-25°C +70°C		
	Media temperature	-40°C +150°C		
	Storage temperature	-25°C +85°C		
	Protection	IP65		
	Humidity	Max.95 % relative		
	Vibration	525 Hz: ±1.6 mm 25100 Hz: 4g Ranges 72, 73, 75 550 Hz: 20 mm/sec.		
	Shock	50g/ 11ms		
Mechanical Data	Sensor	See ordering information		
	Housing	AlSi10Mg/ Epoxy coated		
	Sealing	NBR		
	Screwed cable gland	Polyamide (PA), light blue		
	Mounting torque	Max. 25 Nm		
	Installation	any position		
	Weight	~ 710 g		
Microswitch	Rating	See table		
	Resistance of insulation	> 2 MΩ		
	Dielectric strength	1.25 kV terminal ground		
	Life time (mechanical)	1 Mio. cycles		
Electrical connection	Cable gland	M20x1.5 Cable-Ø 410 mm, max. cable length according to EN 60079-11		
	Terminal screw	3 x 1.54 mm ²		

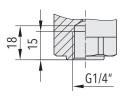
¹⁾ Other adjustment ranges upon request



Dimensions



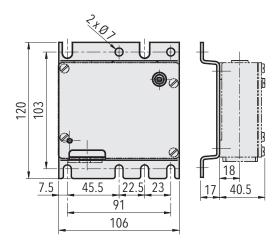




G1/2" male

G1/4" female

904.71.XX.XXX.XX Dimension X see data sheet H72271



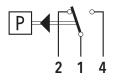
904.XX.XX.XXX.31.XX



Switching differential typ. @ 25°C								
Measuring range bellows sensor	[bar]	-0.9 1.5 0.2 1.6 0.2 2.5	0 4 0 6	1 10 1 16	2 25 4 40	6 60 10 100		
Microswitch 71: Switching differential not adjustable	[bar]	0.1	0.2	0.4	1.0	3.0		

Electrical data switch					
Туре	Features	Rating			
71	Gold plated contacts	$U_0 = 24 V$ $I_0 = 100 \text{ mA}$ $P_0 = 600 \text{ mW}$			

Electrical connection



904

Additional information							
Documents	Data sheet	www.trafag.com/H72364					
	Instructions	www.trafag.com/H73175					
	Flyer	www.trafag.com/H70919					

