

Huba Control



Relative and differential pressure transmitter

Type 699

The type 699 transmitters are available in switchable pressure ranges and with or without display. The full-version includes customer specific adjustment possibilities. Especially developed sensors for each pressure range ensure accurate long term stable measurement and the large variety of options provide the perfect platform for use in air conditioning technology as well as for fine measurement in the industrial and medical environment.

Pressure range -1 ... 1 mbar /

0 ... 0.3 – 50 mbar

- + Available with or without LCD display
- + Adjustable measurement range
- + Switchable output signals
- + Switchable response curve (linear or root-extracted)
- + Resettable Zero Point (Reset button)
- + Full scale adjustable
- + Attractive price / performance ratio
- + Application at over and low pressure range possible
- + Fast, easy mounting. Housing incorporates integral bracket for wall or ceiling mounting

Operating condit	tions								
ledium						1.1		neutral gases	
emperature					<u>Medium / a</u> Storage	mpient	0 +7		
inperature					No conden:	sation	20 1	0.0	
		Application at	over pressure rang		<u>≤</u> 3 mbar		P1 = 50		
olerable overloa	d on one side			>~	> 3 mbar ≤ 3 mbar		P1 = 100 P1 = -4		
Application at under pressure range			nge	> 3 mbar		P1= -4			
pture pressure					ambient ter	nperature	2 x ove	erload	
					70 °C		1.5 x ove	erload	
	act with medium							10 (000)	
ensor iaphragm							Silicone	Al ₂ O ₃ (96%)	
ousing								ponat PC	
ectrical overvie	Output ¹⁾	Power supply	1)		Load		Current	consumption 2)	
wire	4 20 mA	8.0 33 VDC			< supply voltage -: 0.02 A	^{₃v} [Ohm]	< 20 mA		
	010V		/24 VAC ±15% > 1		< 10 mA				
vire	0 20 mA 4 20 mA		/24 VAC ±15% <5 /24 VAC ±15% <5		< 30 mA < 30 mA				
	0 5 V ³		/ 24 VAC ±15% > 1		< 10 mA				
ter					Response ti	me switchable by		s/1s/5s/20s	
larity reversal p	protection	Short circuit pr	root and protected a	against polarity revers	al. Each connection	is protected agains	t crossover up to m	ax. supply voltage.	
namic respons	se								
sponse time							< 20 ms < 10 Hz		
ad cycle							< 10 Hz		
otection stand	lard								
thout cover							IP 00 IP 54		
th cover							IP 54 IP 65		
splay									
D Display					Double spa			git alphanumeric	
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odule MODRUS						al backlight LCD-D	isplay 30 mA curre	nt consumption	
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- no additional root-extracted errors

- For changing diaphragm position, compensable with zero point reset

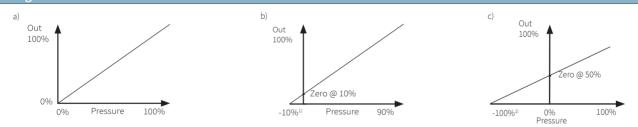
Test conditions:

25 °C, 45% rF, Power supply 24 VDC TC z.p. / TC z.p. 0 ... 70 °C

¹⁾ Adjustable by DIP-Switch ⁴⁾ TC = Temperature coefficient ²⁾ At nominal pressure $^{\scriptscriptstyle 3)}$ Additional adjustable by software (with LCD-Display only)

						1	2	3	4	5	6	7	8	9	10
Order code selectio	n table				699.	X	Х	Х	Х	Х	Х	Х	Х	X	Χ
	max. range					9									
Pre-adjustment	middle range (factory s	etting)				В									
	min. range (factory sett	ing)				С									
	Pressure range of 09	6 to 100% fs					1								
Signal range selectable	Pressure range of -10 9	% to 90% fs					2								
	Pressure range of -100 ⁽	% to 100% fs					3								
	mbar (hPa)	Ра	mmWS	inH₂O	under pressure max.										
	00.3/0.5	30/ 50	3/5	0.1/0.2	-50 Pa			0							
	0 0.3/0.5/ 1	30/50/ 100	3/5/10	0.1/0.2/0.3	-100 Pa			1							
	0 0.5/1/ 3	50/100/ 300	5/10/ 30	0.3/0.5/1	-50 Pa			2							
Pressure range selectable	0 1/3/5	100/300/500	10/30/50	0.5/1/2	-50 Pa			3							
U U	0 3/5/10	300/500/1000	30/50/100	1/2/3	-50 Pa			4							
	0 5/10/ 16	500/1000/1600	50/100/ 160	2/3/5	-50 Pa			5							
	0 10/16/25	1000/1600/2500	100/160/250	3/5/10	-50 Pa			6							
	0 16/25/50	1600/2500/5000	160/250/500	5/10/20	-50 Pa			7							
	mbar	, ,	, ,						0						
	hPa								4						
	Ра								2						
Pressure unit	kPa								5						
	mmWS					-			3						
	inH ₂ O								6						
		without Filter		dual DIP-Swi	tch	-			0	1		0			
Output signal /	Linear	with Filter (transpos	ahle)	tenfold DIP-S						2					
adjustment		without Filter dual DIP-Switch			+				4		0			<u> </u>	
udjustilient	Square root extracted	with Filter (transpos	sahle)	tenfold DIP-S		-				3		Ū			<u> </u>
	010V	13.5 33 VDC / 24 V		(3 wire)	Witch	-				5	1				
	0 20 mA	13.5 33 VDC / 24 V		(3 wire)		-					3				
Output / power supply		13.5 33 VDC / 24 V		(3 wire)							4				-
output/power suppry	4 20 mA	8.0 33 VDC (2 wire)			-					5					
	Output signal complimentary selectable, at delivery no pre-adjustment									2	6				<u> </u>
	without display									2	0	0			<u> </u>
	without display with display in pressure unit chosen above							-			<u> </u>	1			<u> </u>
Option	with display in % fs											2			<u> </u>
	with module MODBUS									2,3	1	3			<u> </u>
	With module MODB03		without process	o orifico						2,3	1	3	1		
Pressure connection /	without pressure orifice Connection pipe Ø 6.2 mm pressure orifice on P1 pressure orifice on P2				-							2			
Pressure orifices					-							2		<u> </u>	
Pressure offices						-							3		<u> </u>
	pressure orifice on P1 and P2 without					-			-				4	0	<u> </u>
			(matal) 000 ar 1	ta altra dia a ta di si O		-								-	<u> </u>
A	IP 54	with connection kit (metal), 90° angled including tube 2 m long (Fig. 1) with connection kit (plastic), straight including tube 2 m long (Fig. 2)				-								1	<u> </u>
Accessories /			(plastic), straight in	cluding tube 2 m	i iong (Fig. 2)									2	<u> </u>
Connection Kit	ID CF	without	(ta la la constante	··· [··· / [: · ·]	-					<u> </u>			3	⊢
	IP 65	IP 65 with connection kit (metal), 90° angled including tube 2 m long (Fig. 1) with connection kit (plastic), straight including tube 2 m long (Fig. 2)												4	<u> </u>
<u></u>		with connection kit	(plastic), straight in	cluding tube 2 m	i long (Fig. 2)	-								5	-
Pressure range variation															
(optinal)	Indicate W and state ra	nge on order (e.g.: W0) + 8mbar/OUT1	6V)		9	1								W

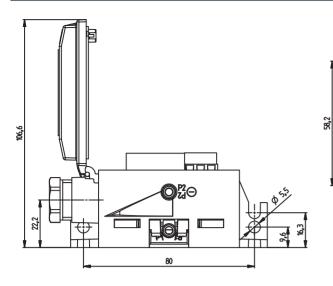
Range of characteristic line

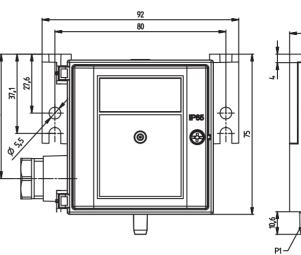


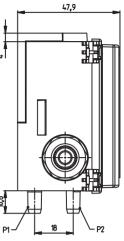
Depending on the version parameters are adjustable by customer

Version Dual DIP-Switch	Variable parameters Pressure ranges in grades
Tenfold DIP-Switch	Pressure ranges in grades; stepless adjustable with Turbo-Poti / output signals / filter (off / on) / response curve (linear / root extracted)
Tenfold DIP-Switch with Display	Pressure ranges in grades; stepless adjustable with Turbo-Poti / pressure units / pressure range character / output signals; additional 0 5 V / filter (off / 0.2s / 1s / 5s / 20s) / response curve (linear / root extracted) / backlight (off / 5min / on)

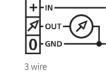
Accessories ²⁾		Order number
Connection kit for vent duct (metal), 90° angled	including tube 2 m long (Fig. 1)	104312
Connection kit for vent duct (plastic), straight including tube	e 2 m long (Fig. 2)	100064
DIN-rail mounting adaptor (Fig. 3)		112854
Module MODBUS		117305
Calibration certificate		104551







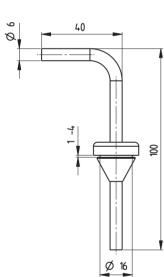
+ Я 0 2 wire





Universal 2 and 3 wire







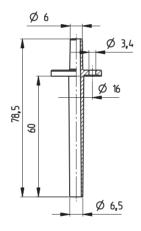
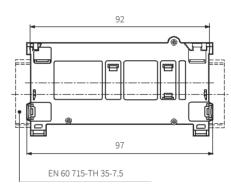
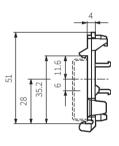


Fig. 3











■カタログに掲載してある製品の色は印刷インキの関係上、実際とは異なる場合があります。
製品のデザイン、仕様等などは、予告なく変更する場合があります。

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