

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

#### **Technical overview**

Pressure range Relative and differential

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Application at under pressure range         a mbar         P1 = 4 mbar         P2	olerable overl	load on one side			
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acting       Polycarbanet PC         ethics overview					
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Output #         Power supply #         Lead         Current consumption #           0 - 10 V         135.33VC / 24 VK - 199 + 01 k0hm         - 10 m A           0 - 20 mA         135.33VC / 24 VK - 199 + 50 k0hm         - 30 m A           4 - 20 mA         135.33VC / 24 VK - 199 + 50 k0hm         - 30 m A           4 - 20 mA         135.33VC / 24 VK - 199 + 50 k0hm         - 30 m A           4 - 20 mA         155.33VC / 24 VK - 199 + 50 k0hm         - 30 m A           4 - 20 mA         153.33VC / 24 VK - 199 + 50 k0hm         - 30 m A           4 - 20 mA         153.33VC / 24 VK - 199 + 50 k0hm         - 30 m A           4 - 20 mA         53.33VC / 24 VK - 199 + 50 k0hm         - 30 m A           5 mot circuit poof and potected against polarity reversal. Each connection is protected against crossover up to max supply voltage.         - 20 m S           signes time         - 20 m S         - 20 m S           otclost standard         - 10 Hz         - 10 Hz           otclost standard         - 10 HZ         - 10 HZ           otclost standard         - 10 HZ         - 20 m S           otclost standard         - 10 HZ         - 20 m S           otclost standard         - 10 HZ         - 20 m S           otclost standard         - 10 HZ         - 20 m S	Jusing				Polycardonal PC
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ackaging ingle packaging in cardboard		1			
ingle packaging in cardboard					0
ultiple packaging 20 / 40 / 120					
	ultiple packa	ging			20 / 40 / 120

<sup>1)</sup> Adjustable by DIP-Switch

<sup>2)</sup> At nominal pressure

<sup>3)</sup> Additional adjustable by software (with LCD-Display only)

Parameter		Unit	±0.5 mbar	0 1 mbar	0 3 mbar	0 5 mbar	0 10 - 50 mbar
Tolerance zero point	max.	% fs	±1.0	±1.0	±0.7	±0.7	±0.7
Tolerance zero full scale	max.	% fs	±1.0	±1.0	±0.7	±0.7	±0.7
Resolution		% fs	0.2	0.2	0.1	0.1	0.1
Total of linearity, hysteresis and repeatability	max.	% fs	±1.0	±1.0	±1.0	±1.0	±0.6
Long therm stability acc. to DIN EN 60770		% fs	±1.0	±1.0	±1.0	±1.0	±1.0
TC zero point <sup>1)</sup>	typ.	% fs/10K	±0.2	±0.2	±0.2	±0.1	±0.1
TC zero point <sup>1)</sup>	max.	% fs/10K	±1.0	±1.0	±0.5	±0.4	±0.4
TC sensitivity <sup>1)</sup> typ		% fs/10K	±0.3	±0.3	±0.2	±0.1	±0.1
TC sensitivity 1)	max.	% fs/10K	±0.6	±0.6	±0.5	±0.5	±0.2

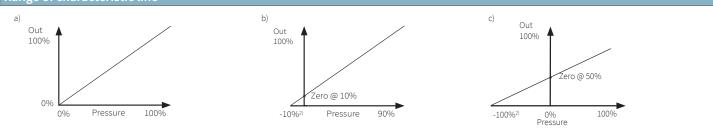
no additional root-extracted errors
 For changing diaphragm position, compensable with zero point reset

Test conditions:

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

						1	2	3	4	5	6	7	8	9	10
Order code selection	table				699.	Х	Х	Х	Х	Х	Х	X	X	X	Х
	max. range					9									
Pre-adjustment	middle range (factory se	etting)				В									
	min. range (factory setti	ing)				С									
	Pressure range of 0 %	6 to 100% fs					1								
Signal range selectable	Pressure range of -10%	% to 90% fs					2								
	Pressure range of -100 9	% to 100% fs					3								
	mbar (hPa)	Ра	mmWS	inH₂O	under pressure max.										
	00.3/0.5	30/ <b>50</b>	3/5	0.1/0.2	-50 Pa			0							
	0 0.3/0.5/ <b>1</b>	30/50/ <b>100</b>	3/5/10	0.1/0.2/0.3	-100 Pa			1							
	0 0.5/1/ <b>3</b>	50/100/ <b>300</b>	5/10/ <b>30</b>	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/ <b>1600</b>	50/100/ <b>160</b>	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						
	Pa								2						
Pressure unit	kPa								5						
	mmWS								3						
	inH <sub>2</sub> O								6						
		without Filter		dual DIP-Swi	tch					1		0	_		
Output signal /	Linear	with Filter (transposa	hle)	tenfold DIP-S						2					
adjustment	Square root extracted	without Filter		dual DIP-Swi						4		0			
aajaotinent		with Filter (transposable) tenfold DIP-Switch							3			_			
	010V	13.5 33 VDC / 24 V		(3 wire)	Witch						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	//0 1 10 //	(2 wire)							5				
	Output signal complimentary selectable, at delivery no pre-adjustment					9				2	6		-		
	without display									2	0	0			
	with display in pressure unit chosen above											1			
Option	with display in % fs											2			
	with module MODBUS									2,3	1	3	_		
	without pressure orifice									2,3	1	5	1		
Pressure connection /			pressure orifice										2		
Pressure orifices	Connection pipe Ø 6.2 mm pressure orifice on P2 pressure orifice on P1 and P2												2		
Pressure offices												4			
	without												4	0	
	ID F4		in al calina a traba o												
Accounting /	IP 54	with connection kit (metal), 90° angled including tube 2 m long (Fig. 1)			-		-						1		
Accessories /		with connection kit (plastic), straight including tube 2 m long (Fig. 2)												2	
Connection Kit	without					-	<u> </u>							3	
	IP 65					-		-		<u> </u>				4	
	with connection kit (plastic), straight including tube 2 m long (Fig. 2)							-						5	
Pressure range variation (optinal) Indicate W and state range on order (e.g.: W0.			+ 8mbar/OUT1	6V)		9	1								W
openaty	maicale wanu sidle idi	nge on order (e.g., Wo		0v/		9	1	1							٧V

#### Range of characteristic line



<sup>1)</sup> TC = Temperature coefficient

#### Depending on the version parameters are adjustable by customer

Version Dual DIP-Switch

Variable parameters Pressure ranges in grades

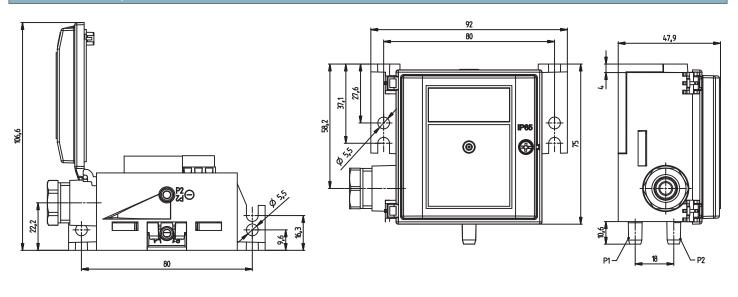
Tenfold DIP-Switch

Tenfold DIP-Switch with Display

Pressure ranges in grades; stepless adjustable with Turbo-Poti / output signals / filter (off / on) / response curve (linear / root extracted)

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 (supplied loose)		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
DIN-rail mounting adaptor (Fig. 3)		112854
Module MODBUS		117305
Calibration certificate		104551



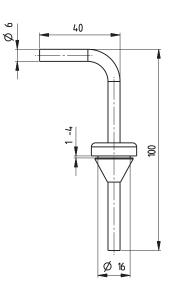






Universal 2 and 3 wire





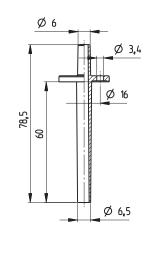
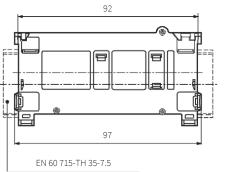
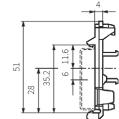


Fig. 2

Fig. 3





# Huba Control

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