DIGITAL DIFFERENTIAL PRESSURE TRANSMITTER / SWITCH FOR FLUID AND GASES

SUKU
DRUCK & TEMPERATUR

Spring mounted measuring diaphragm
Differential pressure 0…400 mbar up to 0…6 bar

Applications
Heating,
Climate control and ventilation technology
Filling level measuring equipment

Type	5353		Options
Measuring ranges	0…400 mbar up to 0…6 bar		
Static operating pressure	max. 16 bar		
Pressure connection	G1/8 female		Cutting ring screw, brass, for pipe 6 and 8 mm
Press.chamber / Diaphragm	Brass		others on request
wetted parts	Pressure connection, seals, membrane		
Display	3½ digit LED		4 digit colour change LCD
Case	Polyamid PA 6.6		
wetted parts	Brass, Viton®, NBR		
Protection class	IP 65 according to DIN EN 60529		
Electrical data	Nominal supply voltage: 24 V DC/AC Operation supply voltage U_b: 12…32 V DC/AC electrical connection tyoe: 3 wire circuit Characteristic curve: programmable (see page 2) Power consumption: approx. 2W/VA		
Output signal	4…20 mA		0…20 mA, 0…10 V
Switching contacts	2 sets of voltage free relay contacts	2 sets of voltage free solid state relay	
progr. switch. Function **max. switch. voltage** **max. switch. current** **max. switch. output**	Normally open (NO) Normally close (NC) 32 V AC/DC 2 A 64 W (VA)	Normally open (NO) Normally close (NC) 3…32 V AC/DC 0,25 A 8W / VA	
Electrical connection	2 x round-shell multi-pin connector socket M12 Connector 1 (power input and analog signal output), 5-pin Connector 2 (relay contacts/solid-state switch outputs), 4-pin		
Deviation **TK-span, TK-zero point**	see page 2		
Allowed temperatures	Media: -10…70°C; Area: -10…70°C, Storage: -20…70°C		
Mounting	Rear mounting holes for panel mounting		Wall mountable using adaptor plate
Accessories	cable with M12 connector 4/5-pin 2 or 5 m		

Programming via membrane key-switches or by using PC-programming interface

Damping	0,0…100,0 s (step response time 10/90%)
Switching outputs	activation point, de-activation point, response time delay
	(0…1800s), function (Normally open, Normally Close)
Measuring range unit	bar, PSI, kPa, "free unit"
	start value, end value and decimal place for "free unit"
Output signal	can be set at any point of measuring range
Zero-point suppression	0…1/3 of measuring range (measured value deviation symetric about zero are set to zero)
Offset correction	± 1/3 of measuring range (Zero calibration setting may change with mounting orientation)
Output characteristic curve	linear, square rooted, table (3…30 entries)
Password	001…999 (000 = password protection disabled)

Straight line error (nonlinearity + hysteresis)

Measuring range	0…400 mbar	0…0,6 bis 0…6 bar
straight line error* % FS max.	2,5	2,5
TK span** %FS/10K max.	0,8	0,4
TK zero point** %FS/10K max.	0,8	0,5

* at 25°C, pressure within specified range (characteristic linear, not spreaded)

**Pressure within specified range (characteristic linear, not spreaded) compensated temperature range 0 to 60 °C

Dimensional drawings   Dimensions in mm