

Pressure transmitter TST-CIT 10... / 20...

Measuring range -1 ... 0 to 0 ... +2,5 bar in small mbar increments
Wetted parts made of stainless steel



Applications

- General industrial applications
- Plant engineering and automation technology
- Mechanical engineering
- Hydraulics and pneumatics

Description

- Pressure transmitter with internal transfer fluid, wetted parts out of stainless steel
- Measuring ranges -1 ... 0 bar to 0 ... +2.5 bar in small mbar increments
- Output signal 4 ... 20 mA (2-wire), 0 ... 5 V DC (3-wire) or 0 ... 10 V DC (3-wire). (Others upon request)
- Available with numerous different process connections and connectors
- Media temperature -20 ... + 80 °C
- Total deviation of the measured value $\leq 0.5\%$ FS
- Compact and robust stainless steel housing

Standard pressure ranges

Measuring range	P(bar)	0,1	0,25	0,4	0,6	1,0	1,6	2,5	-1 ... 0
Overpressure	P(bar)	0,2	0,50	0,8	1,2	1,5	1,9	3,0	1,5
Bursting pressure	P(bar)	0,3	0,75	1,2	1,6	2,0	2,4	4,5	2,0

Technical data

Type: TST-CIT 10 ... / 20 ...

Electrical parameters

	TST-CIT 10.0...	TST-CIT 20.0...	TST-CIT 20.4...
Output signal*	4 ... 20 mA (2-wire)	0 ... 10 V DC (3-wire)	0 ... 5 V DC (3-wire)
Operating voltage U_B	10 ... 32 V DC	12 ... 32 V DC	8 ... 32 V DC
Permitted max. load R_A	$R_A \leq (U_B - 10 \text{ V}) / 20 \text{ mA}$		
Recommended max. load resistor R_L		> 10 k Ω	> 5 k Ω
Response time* (10 ... 90%)	$\leq 10 \text{ ms}$		

Accuracy specifications

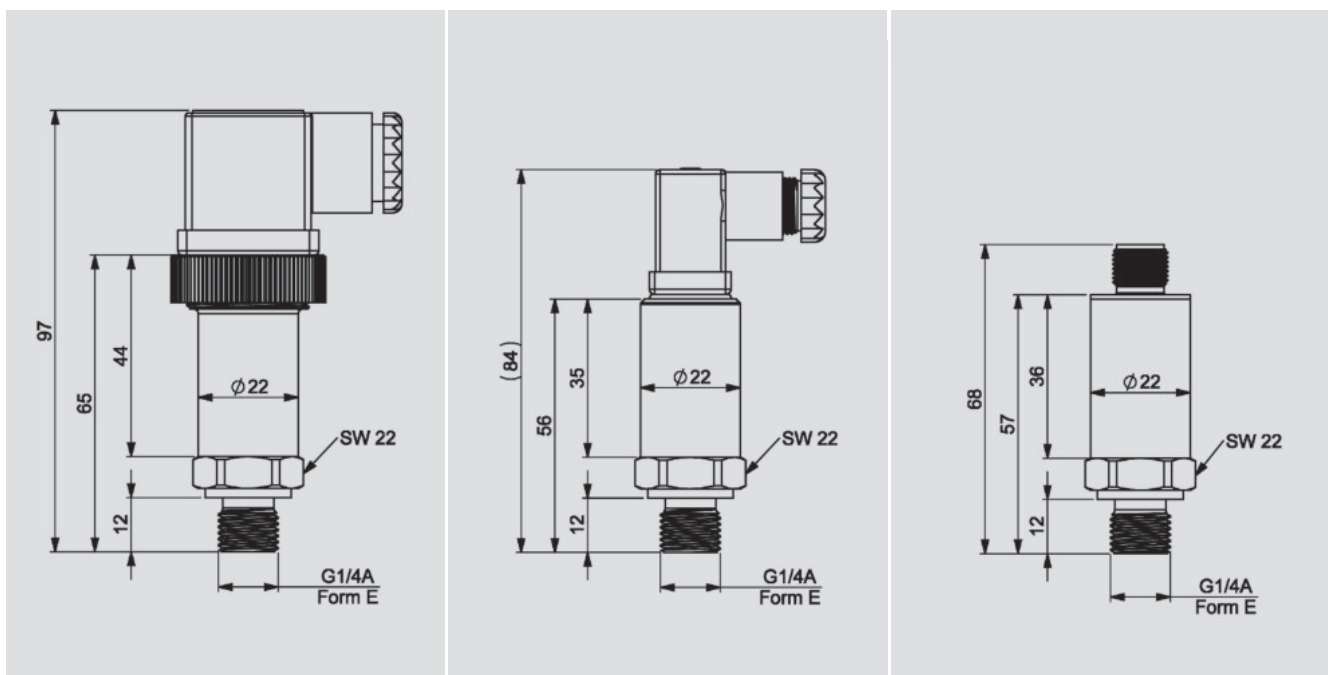
BFSL (Best Fit Straight Line)	$\leq \pm 0,2\%$ of range
Total error at RT	$\leq \pm 0,50\%$ of range - including nonlinearity, hysteresis, zero point and full scale error (according to IEC 61298-2).
	Optional total error $\leq \pm 0,25\%$ of range available
Stability / year	$\leq \pm 0,2\%$ of range

Pressure transmitter TST-CIT 10... / 20...

Measuring range -1 ... 0 to 0 ... +2,5 bar in small mbar increments
Wetted parts made of stainless steel

Technical data	Type: TST-CIT 10 ... / 20 ...
Temperature ranges	
Media temperature	-20 ... +80 °C
Ambient temperature	-20 ... +80 °C
Storage temperature	-20 ... +80 °C
Temperature coefficient zero point	$\leq \pm 0,10 / 10K$ % of range
Temperature coefficient range	$\leq \pm 0,10 / 10K$ % of range
Total error	$\leq 0,5$ % FS
Mechanical parameters	
Material of parts with contact to measuring medium	Stainless steel 1.4404 (316L), Gasket ring FKM
Housing	Stainless steel 1.4301 (304)
Internal transmission fluid	Synthetic oil, optionally with filling acc. FDA
Process connection (Materials on request)	G 1/4" E, G 1/4" B, G 1/4" A, G 1/2" E, G 1/2" B, G 1/2" A, 1/8 NPT, 1/4 NPT, 3/8 NPT (other process connections upon request)
Gasket ring	FKM (other gasket rings upon request)
Electrical connection	MVS/A connector DIN EN 175301-803A IP 65, MVS/C connector DIN EN 175301-803C IP 65, Circular connector M12x1 (S 763-4) IP 67, Cable outlet, others on request
Weight	~ 200 g according to layout
CE conformity	EG- directive 2004/108/EG
IP protection class	Corresponding to the used and connected mating connector

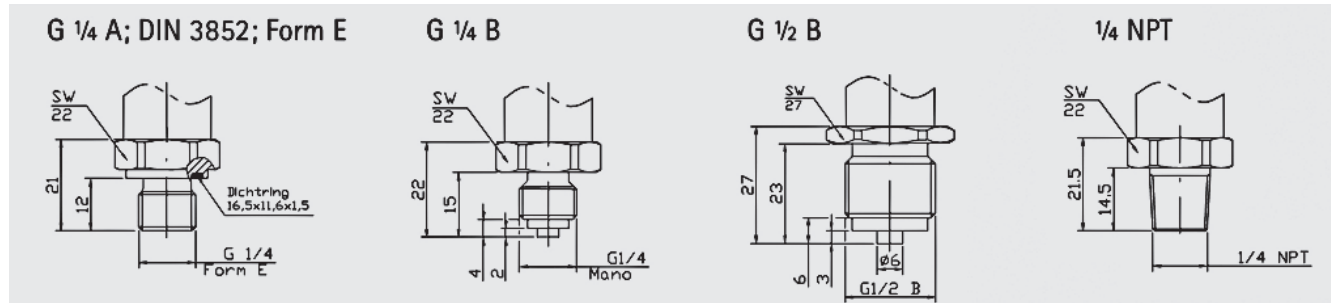
Dimensional drawing



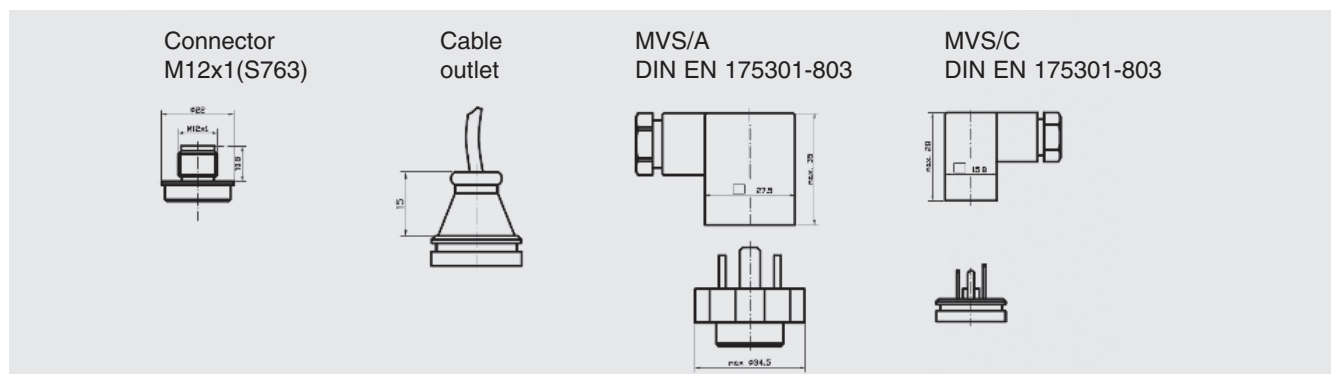
Pressure transmitter TST-CIT 10... / 20...

Measuring range -1 ... 0 to 0 ... +2,5 bar in small mbar increments
Wetted parts made of stainless steel

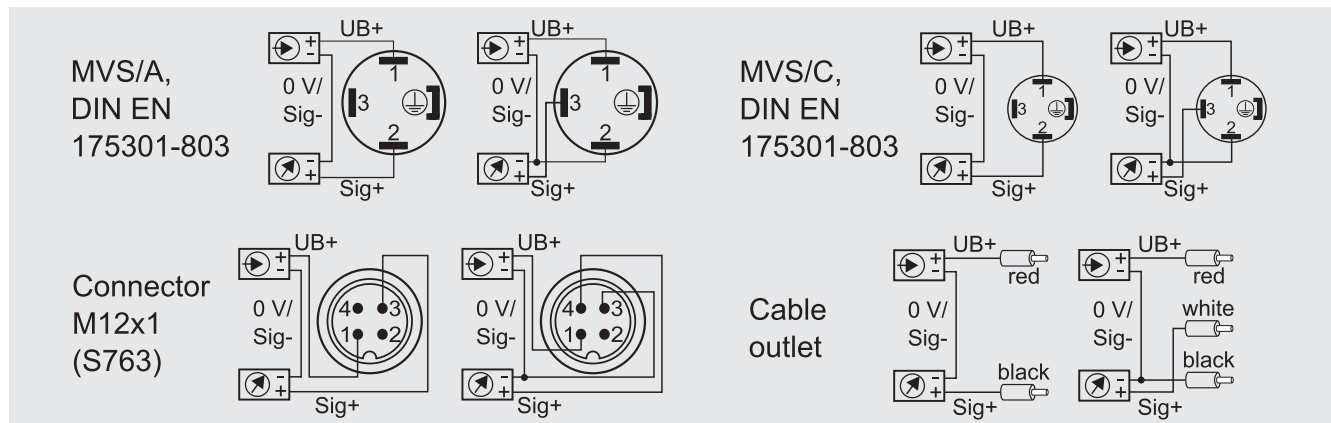
Process connectors



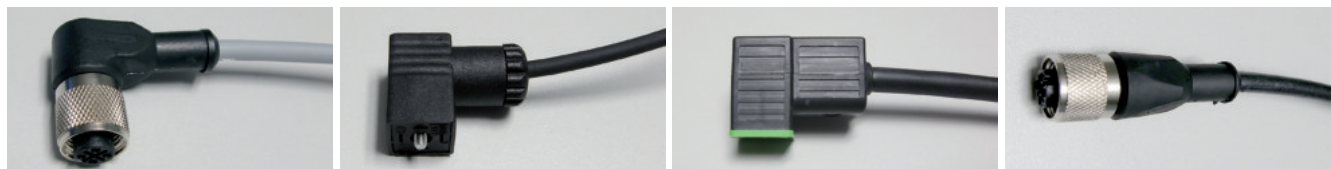
Connector variants



PIN assignment



Assembled cable and connection accessories



Type	Length	Specification	Part No.:	straight	angled
M12x1 (S763) 4-pin	-	connector M12x1 for self-connection		1070039	1070038
	-	connector M12x1 self-connection, shielded		1070030	1070031
	2 m	cable: PUR		1070044	-
	5 m	cable: PUR, halogen-free		1070023	1070025
	5 m	cable: PUR, shielded, halogen-free		1070032	1070033
MVS / C, 3-pin +PE	3 m	cable: PUR, connector MVS / C		-	1070021

Special types upon request.