

PRESSURE TRANSMITTER WITH DATALOGGER DL



Features

- Piezoresistive measuring element
- All pressure ranges between 0...50 mbar and 0...1000 bar available
- Calibration available for all common pressure units
- High reliability
- Measuring interval programmable from 2s to 24h
- Non volatile data memory for 130'000 measurement values
- Data transfer to a PC/Notebook/Pocket PC

Typical applications

- Process monitoring
- Environmental monitoring
- Food industry
- Water distribution
- Test and monitoring

Specifications

Pressure ranges	[bar]	0.05 ... 0.5	> 0.5 ... 2	> 2 ... 25	> 25 ... 600	> 600 ... 1000
Overpressure		3bar	3 x FS (min. 3bar)	3 x FS	3 x FS (max. 850 bar, optional up to 1500 bar)	1500bar
Burst pressure	[bar]	≥ 200	≥ 200	≥ 200	≥ 850 (optional up to 1500bar)	≥ 1500
Accuracy ¹⁾	[± % FS]	≤ 0.25	≤ 0.1	≤ 0.1	≤ 0.1	≤ 0.1
Thermal shift	[± % FS/°C]					
Zero	0...70°C	≤ 0.06 2)	≤ 0.03	≤ 0.015	≤ 0.015	≤ 0.015
	-25...85°C	≤ 0.08 3)	≤ 0.04	≤ 0.02	≤ 0.02	≤ 0.02
Span	0...70°C	≤ 0.015	≤ 0.015	≤ 0.015	≤ 0.015	≤ 0.015
	-25...85°C	≤ 0.02	≤ 0.02	≤ 0.02	≤ 0.02	≤ 0.02
Long term stability (1 year) - (typ./max)		≤ 0.5% FS/< 4 mbar	≤ 0.2% FS/< 4 mbar	≤ 0.1% FS/< 0.2% FS	≤ 0.1% FS/< 0.2% FS	≤ 0.1% FS/< 0.2% FS

Datalogger	
Measurand/Resolution	Pressure < 0.01% FS Temperature 0.1°C (option)
Data memory	130'000 measurement values, non volatile, data kept in memory even without battery
Real time clock	Quartz clock with date; each measurement value is correlated with time and date
Interface	RS232C (V24, three wire)
Identification	Serial number and programmable Id. number
Power supply	Lithium battery 3.6 V / size AA (on site battery change)
Protection class	IP 67 (cap closed)

Configuration and Data Transfer	
PC-Software for Configuration and Data Transfer	
System Requirements	IBM compatible Notebook or PC, Windows™ 95/98/NT/2000, XP or STS-Pocket PC with Windows™ CE 2002 (see Pocket PC datasheet)
Data Transfer	data transfer of all data, of last data set, or a predefined time-period
Configuration	storage and sampling rate timer on/off time and date identification; e.g. name of location tare; the actual pressure value can be set threshold value (option) density of medium (option)
Data Format	Data are stored in an ASCII format file and can be processed with Excel™, Lotus™ or similar

Materials	
Process connection, diaphragm	Stainless steel 1.4435 (316L), other materials (e.g. titanium) on request
Housing	Aluminium AlMgSi1 (colorless, anodized)
Cap	Plastic TEKA Form ELS
Seals (standard)	Viton (other materials see ordering information)

Electromagnetic compatibility

Standard	Level	Typical interference
Emissions:		
EN 61000-6-3	Generic emission standard	
EN 55022	Emission, class B	
Immunity:		
EN 61000-6-2	Generic immunity standard	
EN 61000-4-2	Electrostatic discharge	4 kV kontakt, 8 kV air
EN 61000-4-3	Radiated electro-magnetic field	10 V/m, 80-1000 MHz, 80% AM 1kHz
EN 61000-4-3	Radiated electro-magnetic field (GSM)	10 V/m, 950 MHz, 200 Hz on/off
EN 61000-4-4	Fast transients (burst)	2 kV
EN 61000-4-6	Conducted radio-frequency	10 V, 0.15-80 MHz, 80% AM 1 kHz
		Cellular phones, radio sets
		Digital portable phones
		Motors, valves
		Cellular phones, radio sets

¹⁾ Zero based non-conformity according to DIN 16086, including hysteresis and repeatability

²⁾ 50 - 99mbar: ≤ 0.12

³⁾ 50 - 99mbar: ≤ 0.16

Ordering Information

		63	X	. XXXX	. XXXX	. XX	. XXX
Type	DL	63					
Pressure type	Gauge	1					
	Absolute	2					
	Sealed gauge	3					
Pressure range	All pressure ranges between 0...50mbar and 0...100bar available		XX				
Process connection	G 1/4 female	(Fig. 1)		00			
	G 1/4 M	(Fig. 2)		11			
	G 1/2 M	(Fig. 3)		13			
	G 1/2 M, frontal diaphragm	(Fig. 4)		14			
	G 1/2 M, flush diaphragm	(Fig. 5)		15			
	other process connector available			XX			
Electrical connection	Connector RSF 4, 4-pins ²⁾				07		
Interface	RS232C					61	
Accuracy	≤ ± 0.25% FS (for pressure ranges ≤ 500mbar)					1	
	≤ ± 0.1 % FS (for pressure ranges > 500mbar)					2	
Temperature range	0...70°C compensated (medium temperature 0...80°C)					0	
	-25...85°C compensated (medium temperature -25...100°C)					1	
	Special temperature range					9	
Options	Throttle ¹⁾						A
	Version titanium						K
	Special oil filling in the TD: ASEOL Food						G
	Halocarbon						H
	Seals:	Viton (standard)					U
		EPDM					S
		Kalrez					T
	Special options						Z

¹⁾ Possible with pressure connection Fig. 2 or Fig. 3 only

²⁾ Data transfer cable and PC-Software not included 2m: ordering code VART009
5m: ordering code VART211

Fig. 1

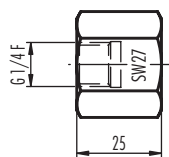


Fig. 2

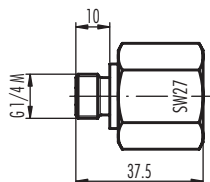


Fig. 3

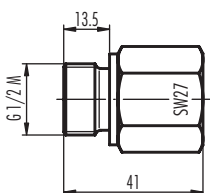


Fig. 4

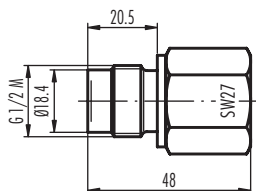
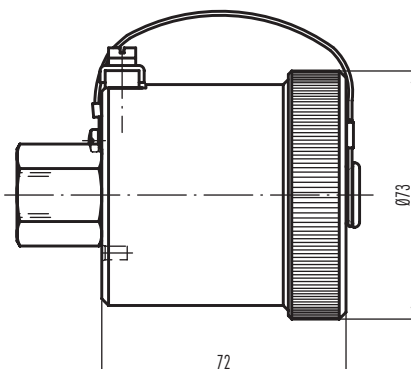
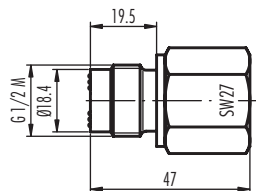
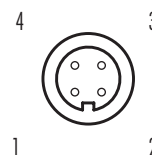


Fig. 5

Cable
socket connector

Pin RS232C

Pin	RS232C
1	TxD
2	RxD
3	GND



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