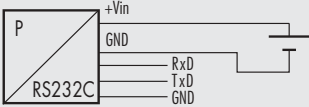
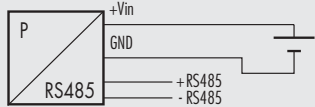


Specifications

Pressure range	[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. 850bar, optional 1500bar)	1500bar
Burst pressure	[bar]	> 200	> 200	> 200	> 850 (optional 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)		< 4mbar	< 4mbar	< 0.2% FS	< 0.2% FS	< 0.2% FS

Interface	RS232C	RS485
Power supply	5...30V DC	5...30V DC
Current consumption	< 7mA	< 7mA
Circuit diagram		
Resolution	< 0.01% FS	< 0.01% FS
Integration time	1µs ... 20s, adjustable	1µs ... 20s, adjustable
Identification	Each DTM has a serial number and a customer programmable mark	

Materials

Process connection, diaphragm, housing Stainless steel 1.4435 (316L), other materials (e.g. titanium) on request
Seals (standard) Viton (other materials see ordering information)

Electromagnetic compatibility

Standard	Level	Typical interferences
Emission:		
EN 61000-6-3 EN 55022	Generic emission standard Emission, class B	
Immunity:		
EN 61000-6-2	Generic immunity	
EN 61000-4-2	Electrostatic discharge	4kV contact, 8kV air
EN 61000-4-3	Radiated electro-magnetic field	10V/m, 80-1000MHz, 80% AM 1kHz
EN 61000-4-3	Radiated electro-magnetic field (GSM)	10V/m, 950MHz, 200Hz on/off
EN 61000-4-4	Fast transients (burst)	2kV
EN 61000-4-6	Conducted radio-frequency	10V, 0.15-80MHz, 80% AM 1kHz
EN 61000-4-5	Surge	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

		28	X	.XXXX	.XXXX	.XX	.XXX
Type	DTM	28					
Pressure type	Gauge	1					
	Absolute	2					
	Sealed gauge	3					
Pressure range	All pressure ranges between 0...50 mbar and -1...1000 bar available		XX				
Process connection	G 1/4 female (Fig. 1)				00		
	G 1/4 M (Fig. 2)				11		
	G 1/4 M, Manometer DIN 16288 (Fig. 3)				12		
	G 1/2 M (Fig. 4)				13		
	G 1/2 M, frontal diaphragm (Fig. 5)				14		
	G 1/2 M, flush diaphragm (Fig. 6)				15		
	G 1/2 M, Manometer DIN 16288 (Fig. 7)				16		
	1/4 NPT M				10		
	1/2 NPT M (Fig. 8)				19		
	Other process connector available				XX		
Electrical connection	Connector DIN 43650 (screwed on) ²⁾ (Fig. 10) IP 65					01	
	Connector Binder 723, 5-pin ²⁾ (Fig. 11) IP 67					03	
	Connector MIL C26482, (10-6) ²⁾ (Fig. 13) IP 40					06	
	PE cable ³⁾⁴⁾ (Fig. 14) IP 67					13	
	PUR cable ³⁾ (Fig. 14) IP 67					15	
	Teflon cable ³⁾ (Fig. 14) IP 67					21	
	Other connector available					XX	
Interface	RS232C					61	
	RS485					62	
Accuray	≤ ± 0.25% FS (for pressure ranges ≤ 500mbar)					1	
	≤ ± 0.1 % FS (for pressure ranges > 500mbar)					2	
Temperature range	Compensated 0...70°C (media temperature 0... 80°C)					0	
	Compensated -25...85°C (media temperature -25...100°C)					1	
	Compensated -25...85°C (media temperature -25...150°C)					2	
	Special temperature range					9	
Options	Throttle ¹⁾						A
	Electronics packed in gel: Gauge pressure						C
	Absolute and sealed gauge pressure						D
	Temperature measurement (ambient temperature)						E
	Special oil filling in the TD: ASEOL Food						G
	Halocarbon						H
	Seals: EPDM						S
	Kalrez						T
Special options						Z	

²⁾ Available only with fig. 2, fig. 4 or fig. 7

³⁾ Cable socket connector not included

⁴⁾ Please specify the required cable length

⁵⁾ Suitable for drinking water (food approved)

Process Connection

Dimensions

Electrical Connection

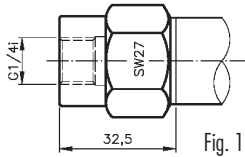


Fig. 1

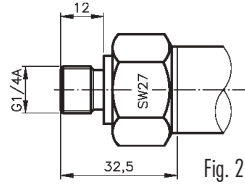


Fig. 2

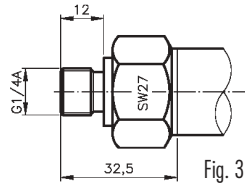


Fig. 3

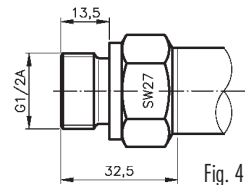


Fig. 4

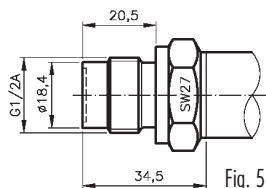


Fig. 5

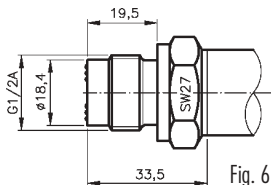


Fig. 6

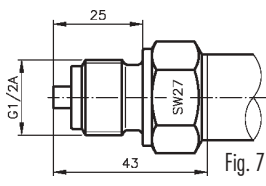


Fig. 7

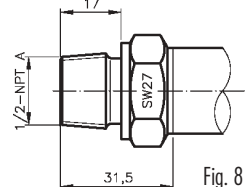
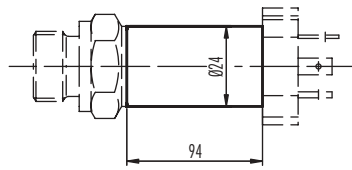


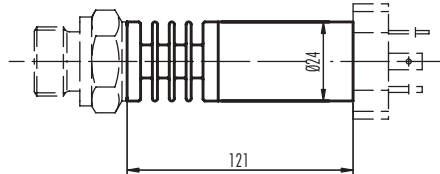
Fig. 8

Version for media temperature up to 100°C



L = 94mm for connector DIN 43650 (Fig. 10)

Version for media temperature up to 150°C



L = 121mm for connector DIN 43650 (Fig. 10)

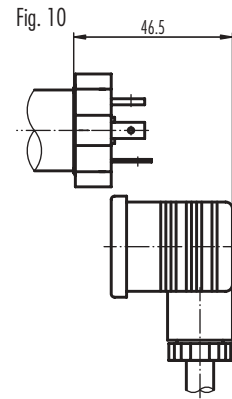


Fig. 10

Pin	RS232C	RS485
1	+Vin	+Vin
2	RxD	+RS485
⊥	GND	GND
	TxD	-RS485

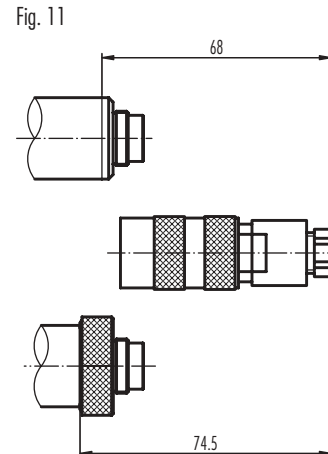


Fig. 11

Pin	RS232C	RS485
1	RxD	+RS485
2	TxD	-RS485
3	+Vin	+Vin
4	GND	GND

Fig. 12

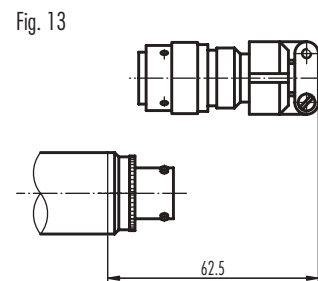


Fig. 13

Pin	RS232C	RS485
A	+Vin	+Vin
B	GND	GND
C	RxD	+RS485
D	TxD	-RS485

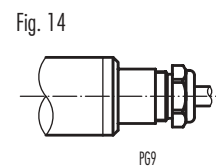


Fig. 14

Colour	RS232C	RS485
white	+Vin	+Vin
yellow	GND	GND
brown	RxD	+RS485
green	TxD	-RS485

Specifications may change without notice.

DED016A

Switzerland

STS Sensor Technik Sirmach AG
Rüthhofstrasse 8
CH - 8370 Sirmach
Tel.: +41 (0)71 969 49 29
Fax: +41 (0)71 969 49 20
e-mail: sales@sts-ag.ch
Internet: www.sts-ag.com

Germany

STS Sensoren Transmitter
Systeme GmbH
Mercedesstrasse 1
D - 71063 Sindelfingen
Tel.: +49 (0)7031 811 920
Fax: +49 (0)7031 811 958
e-mail: sts.gmbh@t-online.de
Internet: www.sts-ag.com

Italy

STS Italia s.r.l.
Via Gesù 5
I - 20090 Opera (MI)
Tel.: +39 02 57607073/074
Fax: +39 02 57607110
e-mail: info@sts-italia.it
Internet: www.sts-ag.com

France

STS France
66, Avenue de la Gare
FR - 74100 Annemasse
Tel.: +33 (0)4 50 37 69 25
Fax: +33 (0)4 50 39 42 25
e-mail: info@stsfrence.fr
Internet: www.sts-ag.com

represented by