DATA SHEET

PFT - the Flexible Pressure Transmitter

The PFT is distinguished by its high-quality measurement technology. The device is well suited to solve demanding measurement tasks in industrial applications.

The pressure transmitter PFT is designed for pressure measurement in liquid and gaseous media. The PFT targets industrial applications such as in machine and plant engineering, in machine tool systems, in hydraulic and pneumatic systems, for pressure control systems and for pumps and compressors.

Starting from a smallest measurement range of 0...0.1 bar, there is a large number of measurement ranges available up to 600 bar. In addition, the PFT offers absolute and compound ranges. The PFT has a very good measurement accuracy across the entire operating temperature range. Its accuracy is ≤± 0.5 % of the span (≤± 0.25 % of span optionally available). A version with an extended temperature range up to 150 °C is available.

The PFT has a circularly welded stainless steel membrane. Hence, there are no internal sealing elements and it is well suited for a large variety even of corrosive media. As there is a large multitude of customary process connectors available as standard, no additional adapters are needed. The PFT is wear-free and does not require maintenance. The pressure in specific media such as sludges, slurries, pulp or highly viscous liquids can be measured through an optionally available flush-mounted stainless steel membrane.

The PFT offers the industry standard output signals 4...20mA, 0...10V, or 0...5V. The transmitter's span and zero point can be adjusted. For electrical connection, M12x1 connectors, L-connectors according to DIN 175301-803 A, and cable outlets are available.

Benefits

- Wide application range
- High accuracy across wide temperature range
- Large number of configurations possible to meet customer requirements
- Trouble-free as no moving parts: No mechanical wear, fatigue-proof, maintenance-free
- Insensitive against corrosive media through hermetically sealed stainless steel membrane
- Quick and simple installation

CE

SICK
Sensor Intelligence.

Technical data

Configurations	Unit	Pessure ranges	Overpressure safety	Burst pressure	Pressure ranges	Overpressure safety	Burst pressure
	bar	0...0.1	2	5	0...10	35	42
	bar	0...0.16	1.5	2	0...16	80	96
	bar	0...0.25	2	2.4	0...25	50	96
	bar	0...0.4	2	2.4	0...40	80	400
	bar	0...0.6	4	4.8	0...60	120	550
	bar	0...1	5	6	0...100	200	800
	bar	0...1.6	10	12	0...160	320	1000
	bar	0...2.5	10	12	0...250	500	1200
	bar	0...4	17	20.5	0...400	800	1700**)
	bar	0...6	35	42	0...600	1200	2400**)
	bar abs	0...0.25	2	2.4	0...4	17	20.5
	bar abs	0...0.4	2	2.4	0...6	35	42
	bar abs	0...0.6	4	4.8	0...10	35	42
	bar abs	0...1	5	6	0...16	80	96
	bar abs	0...1.6	10	12	0...25*)	80	96
	bar abs	0...2.5	10	12			
	bar	-1...0	5	6	-1...+9	35	42
	bar	-1...+0.6	10	12	-1...+15	80	96
	bar	-1...+1.5	10	12	-1...+24	50	96
	bar	-1...+3	17	20.5	-1...+30*)	80	400
	bar	-1...+5	35	42			
	Unit	Pessure ranges	Overpressure safety	Burst pressure	Pressure ranges	Overpressure safety	Burst pressure
	MPa	0...0.01	0.1	0.2	0...1	3.5	4.2
	MPa	0...0.016	0.15	0.2	0...1.6	8	9.6
	MPa	0...0.025	0,2	0.24	0...2.5	5	9.6
	MPa	0...0.04	0,2	0.24	0...4	8	40
	MPa	0...0.06	0.4	0.48	0...6	12	55
	MPa	0...0.1	0.5	0.6	0...10	20	80
	MPa	0...0.16	1	1.2	0...16	32	100
	MPa	0...0.25	1	1.2	0...25	50	120
	MPa	0...0.4	1.7	2.0	0...40	80	170**)
	MPa	0...0.6	3.5	4.2	0...60	120	240**)
	MPa abs	0...0.025	0.2	0.24	0...0.4	1.7	2.05
	MPa abs	0...0.04	0.2	0.24	0...0.6	3.5	4.2
	MPa abs	0...0.06	0.4	0.48	0...1.0	3.5	4.2
	MPa abs	0...0.1	0.5	0.6	0...1.6	8	9.6
	MPa abs	0...0.16	1	1.2	0...2.5*)	8	9.6
	MPa abs	0...0.25	1	1.2			
	MPa	-0.1...0	0.5	0.6	-0.1...+0.9	3.5	4.2
	MPa	-0.1...+0.15	1	1.2	-0.1...+1.5	8	9.6
	MPa	-0.1...+0.3	1.7	2.0	-0.1...+2.4	5	9.6
	MPa	-0.1...+0.5	3.5	4.2			

*) not available with flush-mounted membrane
**) with flush-mounted membrane: the value specified in the table applies only when sealing is realised with the sealing ring underneath the hex. Otherwise max. 1500 bar applies

8013164/UB12 | 01-05-2010

Configurations	Unit	Pessure ranges	Overpressure safety	Burst pressure	Pressure ranges	Overpressure safety	Burst pressure
	psi	0...5	29	34.8	0...300	1160	1390
	psi	0...10	29	34.8	0...500	1160	5800
	psi	0...15	72.5	87	0...1000	1740	7980
	psi	0...25	145	170	0....1500	2900	11600
	psi	0...30	145	170	0...2000	4600	14500
	psi	0...50	240	290	0...3000	7200	17400
	psi	0...100	500	600	0...5000	11600	24650**)
	psi	0...160	500	600	0...8000	17400	34800**)
	psi	0...200	1160	1390			
	psi abs	0...15	72.5	87	0...100	500	600
	psi abs	0...25	145	170	0...250	1160	1390
	psi abs	0...50	240	290			
	psi	-30 InHg...0	72.5	87	-30 InHg...+160	1160	1390
	psi	-30 InHg...+30	240	290	-30 InHg...+200	1160	1390
	psi	-30 InHg...+60	240	290	-30 InHg...+300	1160	1390
	psi	-30 InHg...+100	500	600			

	Unit	Pessure ranges	Overpressure safety	Burst pressure	Pressure ranges	Overpressure safety	Burst pressure
	kg/cm²	0...0.1	1	2	0...10	35	42
	kg/cm²	0...0.16	1,5	2	0...16	80	96
	kg/cm²	0...0.25	2	2.4	0...25	50	96
	kg/cm²	0...0.4	2	2.4	0...40	80	400
	kg/cm²	0...0.6	4	4.8	0...60	120	550
	kg/cm²	0...1	5	6	0...100	200	800
	kg/cm²	0...1.6	10	12	0...160	320	1000
	kg/cm²	0...2.5	10	12	0...250	500	1200
	kg/cm²	0...4	17	20.5	0...400	800	1700**)
	kg/cm²	0...6	35	42	0...600	1200	2400**)
	kg/cm² abs	0...0.25	2	2.4	0...4	17	20.5
	kg/cm² abs	0...0.4	2	2.4	0...6	35	42
	kg/cm² abs	0...0.6	4	4.8	0...10	35	42
	kg/cm² abs	0...1	5	6	0...16	80	96
	kg/cm² abs	0...1.6	10	12	0...25*)	80	96
	kg/cm² abs	0...2.5	10	12			
	kg/cm²	-1...0	5	6	-1...+5	35	42
	kg/cm²	-1...+0.6	10	12	-1...+9	35	42
	kg/cm²	-1...+1.5	10	12	-1...+15	80	96
	kg/cm²	-1...+3	17	20.5	-1...+24	50	96

	Unit	Pessure ranges	Overpressure safety	Burst pressure	Pressure ranges	Overpressure safety	Burst pressure
	bar abs	800...1200	10000	12000			
	mbar	-600...0	4000	4800	-160...0	1500	2000
	mbar	-400...0	2000	2400	-100...0	1000	2000
	mbar	-250...0	2000	2400			

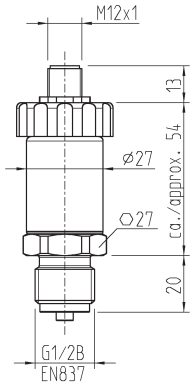
*) not available with flush-mounted membrane
**) with flush-mounted membrane: the value specified in the table applies only when sealing is realised with the sealing ring underneath the hex. Otherwise max. 1500 bar applies

Technical data

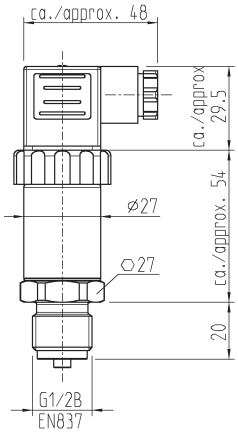
Materials			
■ Wetted parts			
Standard	Stainless steel		
With flush-mounted diaphragm	Stainless steel	O-ring: NBR [1] FPM/FKM optional	
■ Internal transmission fluid [2]	Synthetic oil		
	[1] O-ring made of FPM/FKM for version with flush-mounted membrane with integrated cooling element		
	[2] Not available for version with standard membrane for pressure ranges > 25 bar		
■ Housing	Stainless steel		
Power supply L^+	10 ... 30 V DC	(14 ... 30 V DC with signal output 0 ... 10 V)	
Signal output and maximum ohmic load R_A	4 ... 20 mA, 2-wire	$R_A \leq (L^+ - 10\ V) / 0.02\ A$ [Ohm]	
	0 ... 5 V, 3-wire	$R_A > 5$ kOhm	
	0 ... 10 V, 3-wire	$R_A > 10$ kOhm	
	other signal outputs on request		
Adjustability zero/span	± 5 % using potentiometers inside the instrument		
Response time (10 ... 90 %)	≤ 1 ms (≤ 10 ms at medium temperatures below < -30 °C for pressure ranges up to 25 bar or with flush-mounted membrane)		
Dielectric strength	500 VDC [3]		
	[3] NEC Class 02 power supply (low voltage and low current max. 100 VA even under fault conditions)		
Accuracy	≤ 0.5 % of span [4]		
	≤ 0.25 % of span [4] optionally available for pressure ranges ≥ 0.25 bar		
	[4] Including non-linearity, hysteresis, zero point and full scale error (corresponds to error of measu rement per IEC 61298-2)		
	Calibrated vertically with pressure connector facing downwards		
Non-linearity	≤ ± 0.2 % of span	(BFSL) according to IEC 61298-2	
Non-repeatability	≤ ± 0.1 % of span		
1-year stability	≤ ± 0.2 % of span	(at reference conditions)	
Permissible temperature of	PFT standard version		additionally with flush-mounted membrane and cooling element
■ Medium	-30 ... +100 °C	-40 ... +125 °C optional	-20 ... +150 °C
■ Ambience	-20 ... +80 °C		-20 ... +80 °C
■ Storage	-40 ... +100 °C		-20 ... +100 °C
Compensated temp. range	0 ... +80 °C		
Temperature coefficients within compensated temp range			
■ Mean TC of zero	≤ 0.2 % of span / 10 K (< 0.4 % / 10 K for pressure range ≤ 0.25 bar)		
■ Mean TC of span	≤ 0.2 % of span / 10 K		
CE-conformity			
■ Pressure equipment directive	97/23/EC		
■ EMC directive	2004/108/EC		
	EN 61 326-2-3		
Enclosure rating [5]	IP 67		
	IP 68 for configuration with specific integrated cable output (zero and span not adjustable)		
	IP 65 for configuration with L-connector		
	[5] Ingress protection IP per IEC 60529. The ingress protection classes specified only apply while the pressure transmitter is connected with female connectors that provide the corresponding ingress protection.		
Shock resistance	1000 g according to IEC 60068-2-27	(mechanical shock)	
Vibration resistance	20 g according to IEC 60068-2-6	(vibration under resonance)	
Wiring protection			
■ Protection class	III		
■ Overvoltage protection	36 VDC		
■ Short-circuit proofness	Q_A towards M		
■ Reverse polarity protection	L^+ towards M		
Weight	Approx. 200 g		
	Approx. 300 g with option accuracy 0.25% of span (due to longer housing)		

Dimensional drawings

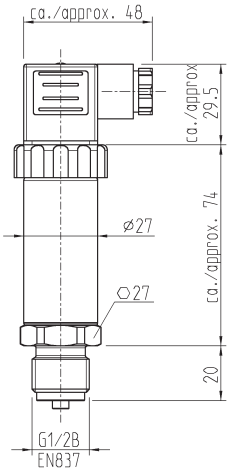
M12x1 Circular connector Order code: M
Housing at 0.5 % accuracy
Order code: S
Process connection G 1/2 acc. to EN 837
Order code: GD



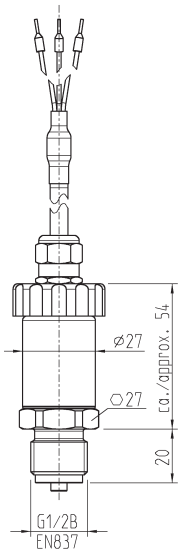
DIN 175301-803 A L-connector
Order code: L
Housing at 0.5 % accuracy
Order code: S
Process connection G1/2 acc. to EN 837
Order code: GD



DIN 175301-803 A L-connector
Order code: L
Housing at 0.25 % accuracy
Order code: A
Process connection G1/2 acc. to EN 837
Order code: GD



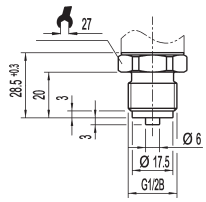
Flying leads
Order code: 1.5m cable: 1
3.0m cable: 3
Housing at 0.5 % accuracy
Order code: S
Process connection G1/2 acc. to EN 837
Order code: GD



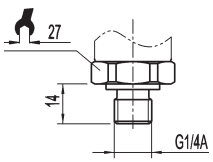
All dimensions in mm

Process connections

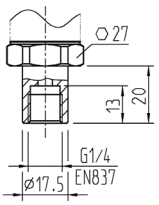
G 1/2 B EN 837
Order code: GD



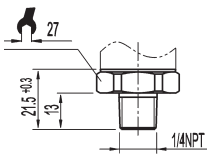
G 1/4 DIN 3852-E
(over pressure safety max. 600 bar)
Order code: G1



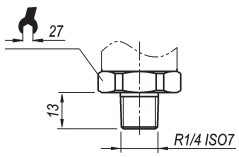
G 1/4 female
Order code: G2



1/4“ NPT
Order code: N1



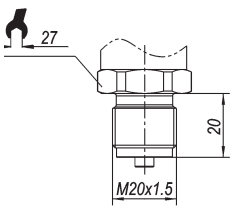
R 1/4 ISO 7
Order code: R1



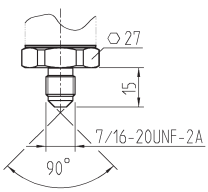
All dimensions in mm

Process connections, flush-mounted membrane

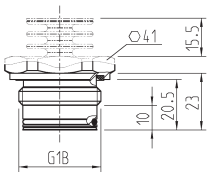
M 20 x 1,5
with sealing copper or stainless steel
Order code: M2



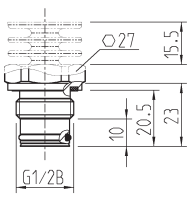
7/16“ -20 UNF
Order code: U1



G 1 B with or without cooling element
0 ... 0.1 up to 0 ... 1.6 bar
Order code: F1



G 1/2 B with or without cooling element
0 ... 2.5 up to 0 ... 600 bar
Max. overpressure safety 600 bar
Order code: F2



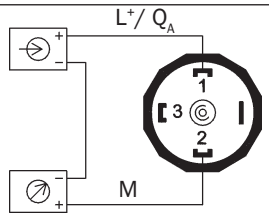
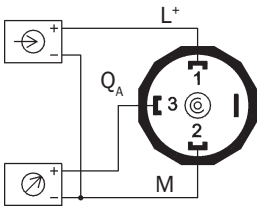
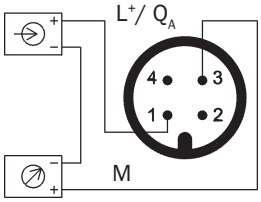
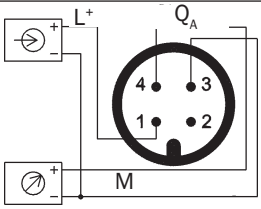
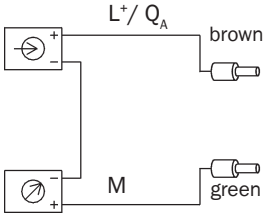
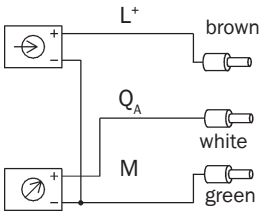
All dimensions in mm

For installation and safety instructions see the operating instructions for this product.
Integrated cooling elements only for flush-mounted membrane and medium temperature -20 °C ... +150 °C.

Pressure spike protection for hydraulics applications

Pressure port: Reduced diameters 0.3 mm or 0.6 mm optionally available for process connection G1/4 acc. to DIN3852 E.

Electrical connections

	2-wire	3-wire
DIN 175301-803 A L-Connector for conductor cross section up to max. 1.5 mm², conductor outer diameter 6... 8 mm		
M 12x1, 4-pin Circular connector		
Flying leads for conductor cross section 0.5 mm², AWG 20 with end splices, conductor outer diameter 6.8 mm Power supply: load (e.g. display):	 Shield: grey	 Shield: grey

Legend:

L^+	Positive supply connection
M	Negative supply connection
Q_A	Analog output

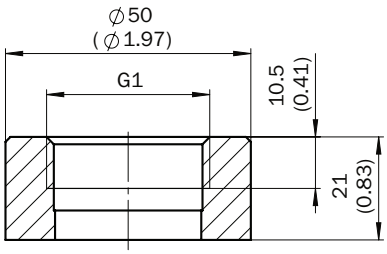
Recommended accessories

Weld-in flanges for version with flush-mounted membrane

Process connection	Material	Type	Part No.
G 1 B	1.4571	BEF-FL-316G10-B0PH	5322450
G 1/2 B	1.4571	BEF-FL-316G12-B0PH	5322449

Weld-in flange G 1 B

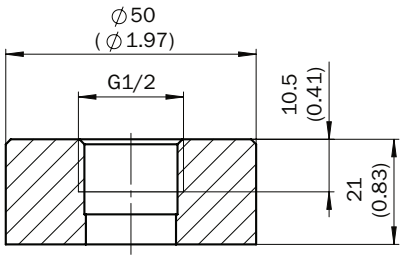
For process connector order code F1



All dimensions in mm (inch)

Weld-in flange G 1/2 B

For process connector order code F2



All dimensions in mm (inch)

Plug connectors and cables

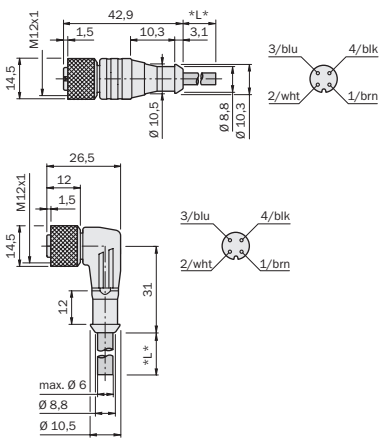
- **Material: PVC**
- **Number of pins: 4**

Connector type	Flying leads	Coating colour	Cable length	Type	Part No.
Female connector	Straight	Organge	2 m	DOL-1204-G02M	6009382
			5 m	DOL-1204-G05M	6009866
			10 m	DOL-1204-G10M	6010543
			15 m	DOL-1204-G15M	6010753
			20 m	DOL-1204-G20M	6034401
		Grey	1 m	DOL-1204-G01MS02	6033686
			4 m	DOL-1204-G04MS02	6033687
			5 m	DOL-1204-G05MS02	6033688
			7 m	DOL-1204-G07MS02	6033690
	Angled	Organge	2 m	DOL-1204-W02M	6009383
			5 m	DOL-1204-W05M	6009867
			10 m	DOL-1204-W10M	6010541
			15 m	DOL-1204-W15M	6036474
			20 m	DOL-1204-W20M	6033559

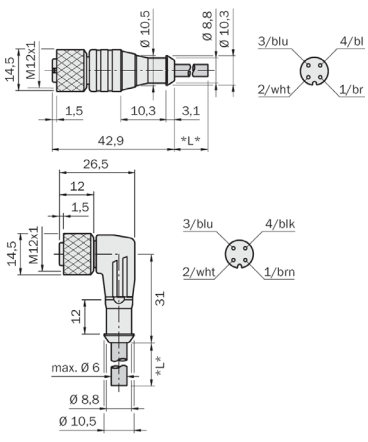
- **Material: PUR**
- **Number of pins: 4**

Connector type	Coating colour	Flying leads	Cable length	Type	Part No.
Female connector	Organge	Straight	2 m	DOL-1204-G02MC	6025900
			5 m	DOL-1204-G05MC	6025901
			10 m	DOL-1204-G10MC	6025902
			15 m	DOL-1204-G15MC	6034749
			20 m	DOL-1204-G20MC	6034750
			25 m	DOL-1204-G25MC	6034751
			5 m, welding spark-proof	DOL-1204-G05MD	6026250
			2 m	DOL-1204-W02MC	6025903
			5 m	DOL-1204-W05MC	6025904
			10 m	DOL-1204-W10MC	6025905
		Angled	15 m	DOL-1204-W15MC	6034752
			20 m	DOL-1204-W20MC	6034753
			25 m	DOL-1204-W25MC	6034754
			5 m, welding spark-proof	DOL-1204-W05MD	6020399

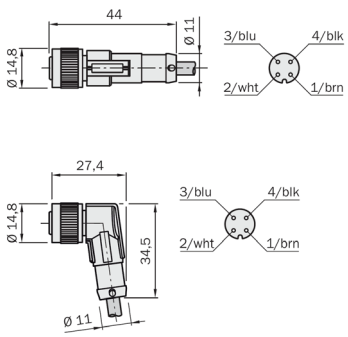
PVC, straight/angled



PUR, straight/angled



PUR, welding spark-proof, straight/angled



Type code

Type

S	Standard
F	Front-flush membrane

Pressure type

R	Gauge
A	Absolute
C	Compound

Pressure Unit

B	bar
M	MPa
P	psi
K	kg/cm²
A	mbar

Standard measurement range see the following page

Accuracy

S	Accuracy +/- 0.5 % of Span (BFSL)
A	Accuracy +/- 0.25 % of Span (BFSL) [1]

Process Connector

G1	G 1/4 A according to DIN 3852-E
G2	G 1/4 female
GD	G 1/2 B acc. to EN 837
N1	1/4 NPT
M2	M20 x 1.5
U1	7/16"-20 UNF SAE #4 J514 male
R1	R 1/4 ISO 7 (DIN2999)
F1	G 1 B flush-mounted with O-ring [2]
F2	G 1/2 B flush-mounted with O-ring [3]

Pressure Port

S	Standard
N	0.3 mm pressure port (for process connector G 1/4 acc. to DIN 3852E) [4]
M	0.6 mm pressure port (for process connector G 1/4 acc. to DIN 3852E) [4]
0	Flush-mounted membrane

Process Temperature

S	-30... +100 °C
E	-40... +125 °C (for standard membrane)
H	-20... +150 °C (for flush-mounted membrane)

PFT -												S	S	

[1] Only for p ≥ 0.25 bar
[2] Only for p ≤ 1.6 bar
[3] Only for p ≥ 2.0 bar
[4] Not with flush-mounted membrane

8013164/UB12 | 01-05-2010

Sealing

A	With standard membrane without sealing
S	With flush-mounted membrane: wetted parts: CrNi-steel + NBR O-Ring [5]
C	With flush-mounted membrane: wetted parts: CrNi-steel + FPM/FKM O-Ring

Output Signal

A	4...20 mA, 2-wire
V	0...10 V, 3-wire
U	0...5 V, 3-wire

Electrical Connector

M	M12 x 1, 4-pin
L	L-connector DIN EN 175301-803 A, IP 65
1	Flying leads, 1.5 m, IP 67
3	3 flying leads, 3 m, IP 67
4	Flying leads, 1.5 m, IP 68 (zero and span not adjustable)
5	Flying leads, 3 m, IP 68 (zero and span not adjustable)

Design specifics

Z	Without design specifics
F	Free from oil and grease [6]

PFT -												S	S	

[5] Only for process temperature -30...100 °C
[6] Only for non flush-mounted membrane

Type code

Measurement ranges	bar / Gauge Pressure		bar / Absolute Pressure		bar / Compound Pressure	
	X10	0...0.1 bar	X25	0...0.25 bar abs	1X0	-1...0 bar
	X16	0...0.16 bar	X40	0...0.4 bar abs	1X6	-1...+0.6 bar
	X25	0...0.25 bar	X60	0...0.6 bar abs	2X5	-1...+1.5 bar
	X40	0...0.4 bar	1X0	0...1 bar abs	4X0	-1...+3 bar
	X60	0...0.6 bar	1X6	0...1.6 bar abs	6X0	-1...+5 bar
	1X0	0...1 bar	2X5	0...2.5 bar abs	010	-1...+9 bar
	1X6	0...1.6 bar	4X0	0...4 bar abs	016	-1...+15 bar
	2X5	0...2.5 bar	6X0	0...6 bar abs	025	-1...+24 bar
	4X0	0...4 bar	010	0...10 bar abs	031	-1...+30 bar [1]
	6X0	0...6 bar	016	0...16 bar abs		
	010	0...10 bar	025	0...25 bar abs [1]		
	016	0...16 bar				
	025	0...25 bar				
	040	0...40 bar				
	060	0...60 bar				
	100	0...100 bar				
	160	0...160 bar				
	250	0...250 bar				
	400	0...400 bar				
	600	0...600 bar				

Measurement ranges	MPa / Gauge Pressure		MPa / Absolute Pressure		MPa / Compound Pressure	
	10M	0...0.01 MPa	25M	0...0.025 MPa abs	X10	-0.1...0 MPa
	16M	0...0.016 MPa	40M	0...0.04 MPa abs	X25	-0.1...+0.15 MPa
	25M	0...0.025 MPa	60M	0...0.06 MPa abs	X40	-0.1...+0.3 MPa
	40M	0...0.04 MPa	X10	0...0.1 MPa abs	X60	-0.1...+0.5 MPa
	60M	0...0.06 MPa	X16	0...0.16 MPa abs	1X0	-0.1...+0.9 MPa
	X10	0...0.1 MPa	X25	0...0.25 MPa abs	1X6	-0.1...+1.5 MPa
	X16	0...0.16 MPa	X40	0...0.4 MPa abs	2X5	-0.1...+2.4 MPa
	X25	0...0.25 MPa	X60	0...0.6 MPa abs		
	X40	0...0.4 MPa	1X0	0...1.0 MPa abs		
	X60	0...0.6 MPa	1X6	0...1.6 MPa abs		
	1X0	0...1 MPa	2X5	0...2.5 MPa abs [1]		
	1X6	0...1.6 MPa				
	2X5	0...2.5 MPa				
	4X0	0...4 MPa				
	6X0	0...6 MPa				
	010	0...10 MPa				
	016	0...16 MPa				
	025	0...25 MPa				
	040	0...40 MPa				
	060	0...60 MPa				

[1] Not available with flush-mounted membrane

8013164/UB12 | 01-05-2010

Measurement ranges	psi / Gauge Pressure		psi / Absolute Pressure		psi / Compound Pressure	
	5X0	0...5 psi	015	0...15 psi abs	015	-30 InHg...0 psi
	010	0...10 psi	025	0...25 psi abs	045	-30 InHg...+30 psi
	015	0...15 psi	050	0...50 psi abs	075	-30 InHg...+60 psi
	025	0...25 psi	100	0...100 psi abs	115	-30 InHg...+100 psi
	030	0...30 psi	250	0...250 psi abs	175	-30 InHg...+160 psi
	050	0...50 psi			215	-30 InHg...+200 psi
	100	0...100 psi			315	-30 InHg...+300 psi
	160	0...160 psi				
	200	0...200 psi				
	300	0...300 psi				
	500	0...500 psi				
	1K0	0...1000 psi				
	1K5	0...1500 psi				
	2K0	0...2000 psi				
	3K0	0...3000 psi				
	5K0	0...5000 psi				
	8K0	0...8000 psi				

Measurement ranges	kg/cm² / Gauge Pressure		kg/cm² / Absolute Pressure		kg/cm² / Compound Pressure	
	X10	0...0.1 kg/cm²	X25	0...0.25 kg/cm² abs	1X0	-1...0 kg/cm²
	X16	0...0.16 kg/cm²	X40	0...0.4 kg/cm² abs	1X6	-1...+0.6 kg/cm²
	X25	0...0.25 kg/cm²	X60	0...0.6 kg/cm² abs	2X5	-1...+1.5 kg/cm²
	X40	0...0.4 kg/cm²	1X0	0...1 kg/cm² abs	4X0	-1...+3 kg/cm²
	X60	0...0.6 kg/cm²	1X6	0...1.6 kg/cm² abs	6X0	-1...+5 kg/cm²
	1X0	0...1 kg/cm²	2X5	0...2.5 kg/cm² abs	010	-1...+9 kg/cm²
	1X6	0...1.6 kg/cm²	4X0	0...4 kg/cm² abs	016	-1...+15 kg/cm²
	2X5	0...2.5 kg/cm²	6X0	0...6 kg/cm²abs	025	-1...+24 kg/cm²
	4X0	0...4 kg/cm²	010	0...10 kg/cm² abs		
	6X0	0...6 kg/cm²	016	0...16 kg/cm² abs		
	010	0...10 kg/cm²	025	0...25 kg/cm² abs [1)]		
	016	0...16 kg/cm²				
	025	0...25 kg/cm²				
	040	0...40 kg/cm²				
	060	0...60 kg/cm²				
	100	0...100 kg/cm²				
	160	0...160 kg/cm²				
	250	0...250 kg/cm²				
	400	0...400 kg/cm²				
	600	0...600 kg/cm²				

Measurement ranges	mbar / Absolute Pressure		mbar / Compound Pressure	
	400	800...1200 mbar abs	600	-600...0 mbar
			400	-400...0 mbar
			250	-250...0 mbar
			160	-160...0 mbar
			100	-100...0 mbar

[1)] Not available with flush-mounted membrane

8013164/UB12/2010-05-01 · DIV09/FD (2010-05) USmod 4c de35

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