

OEM Hydrogen Pressure Transmitter

- All welded stainless steel wetted parts
- Nitrogen-strengthened austenitic steel
- High burst pressures



About

The P14 is designed to accommodate stationary as well as mobile H₂ application requirements. Produced with high vibration and shock resistance, the P14 is versatile and reliable.

Applications

- ✓ Hydrogen production
- ✓ Fuel Cells
- ✓ Fueling stations
- ✓ Compressors
- ✓ Hydrogen storage tanks
- ✓ Vehicles

Build Your Part Number

Series P14

Example: **P14GA215A6A51F1**

Series	
P14	

Pressure Reference - select one	
G	Gauge

Output Signal - select one		Supply
A	4 ... 20 mA	24 (9 ... 32) VDC
B	0 ... 5 VDC	24 (9 ... 32) VDC
C	0 ... 10 VDC	24 (15 ... 32) VDC
D	0.5 ... 4.5 VDC ratiometric	5 (4.75 ... 5.25) VDC
E	1 ... 5 VDC	24 (9 ... 32) VDC
F	1 ... 6 VDC	24 (9 ... 32) VDC
G	1 ... 10 VDC	24 (15 ... 32) VDC
H	0.5 ... 4.5 VDC	24 (9 ... 32) VDC
J	0.1 ... 4.1 VDC	24 (9 ... 32) VDC
K	0.1 ... 5.1 VDC	24 (9 ... 32) VDC
L	0.5 ... 5 VDC	24 (9 ... 32) VDC
M	0.5 ... 5.5 VDC	24 (9 ... 32) VDC
N	0.1 ... 10.1 VDC	24 (15 ... 32) VDC

Pressure Range (psi) - select one	Over Pressure (psi)	Burst Pressure (psi)
21 0 ... 15	30	350
22 0 ... 20	30	350
23 0 ... 25	60	700
24 0 ... 30	60	700
25 0 ... 50	100	850
26 0 ... 100	200	1450
27 0 ... 150	300	2500
28 0 ... 200	400	2500
29 0 ... 250	500	2500
31 0 ... 300	600	4000
32 0 ... 400	600	4000
33 0 ... 500	750	4000
34 0 ... 1000	1500	5000
35 0 ... 1500	2250	7000
36 0 ... 2000	3000	10000
37 0 ... 3000	4500	14500
38 0 ... 5000	11250	29000
39 0 ... 7500	11250	29000
XX Use "XX" for custom ranges (Ex: 0 ... 550 psi) Please inform range below part number		

Build Your Part Number

Series P14

Example: **P14GA215A6A51F1**

Process Connection – select one; see diagrams page 8

5A	1/8" NPT male
5C	1/4" NPT male
5G	7/16"-20UNF-2A male, SAE J1926-2
5L	9/16"-18UNF-2A male, SAE J1926-2
5N	G1/4" male

Electrical Connection – select one; see diagrams page 7

6A	DIN 43650-C micro-mini (9.4mm)	
6C	Male electrical connector M12x1, 4-pole	
6D	Male electrical connector M12x1, 5-pole	
6F	Deutsch 3-pole, DT04-3P	
6G	Deutsch 4-pole, DT04-4P	
6J	MIL-C 26482, 6-pole	
6K	0.5 Meter PVC shielded cable with flying leads	(standard color-coding pin-out, see page 6)
6L	1 Meter PVC shielded cable with flying leads	(standard color-coding pin-out, see page 6)
6M	2 Meter PVC shielded cable with flying leads	(standard color-coding pin-out, see page 6)
6S	0.5 Meter PUR shielded cable with flying leads	(standard color-coding pin-out, see page 6)
6T	1 Meter PUR shielded cable with flying leads	(standard color-coding pin-out, see page 6)
6U	2 Meter PUR shielded cable with flying leads	(standard color-coding pin-out, see page 6)
6X	0.5 Meter EPD Raychem shielded FDR25 cable with flying leads	(standard color-coding pin-out, see page 6)
6Y	1 Meter EPD Raychem shielded FDR25 cable with flying leads	(standard color-coding pin-out, see page 6)
6Z	2 Meter EPD Raychem shielded FDR25 cable with flying leads	(standard color-coding pin-out, see page 6)

Pin-Out Options – select one; see wiring diagram page 6

99	Standard
51	Longer lead time and upcharges may apply
52	Longer lead time and upcharges may apply
53	Longer lead time and upcharges may apply
54	Longer lead time and upcharges may apply
55	Longer lead time and upcharges may apply
56	Longer lead time and upcharges may apply
57	Longer lead time and upcharges may apply
58	Longer lead time and upcharges may apply
59	Longer lead time and upcharges may apply
61	Longer lead time and upcharges may apply
62	Longer lead time and upcharges may apply
63	Longer lead time and upcharges may apply
64	Longer lead time and upcharges may apply
65	Longer lead time and upcharges may apply
66	Longer lead time and upcharges may apply
67	Longer lead time and upcharges may apply
68	Longer lead time and upcharges may apply
69	Longer lead time and upcharges may apply
71	Longer lead time and upcharges may apply
72	Longer lead time and upcharges may apply
73	Longer lead time and upcharges may apply
74	Longer lead time and upcharges may apply
75	Longer lead time and upcharges may apply

Build Your Part Number

Series P14

Example: P14GA215A6A51F1

Wetted Sealing Material - *select only for process connections 5G, 5L, 5N; for all others, leave blank*

F1	Seal FPM, -0.4°F ... +257°F
E1	Seal EPDM, -40°F ... +257°F
N1	Seal NBR, -13°F ... +212°F

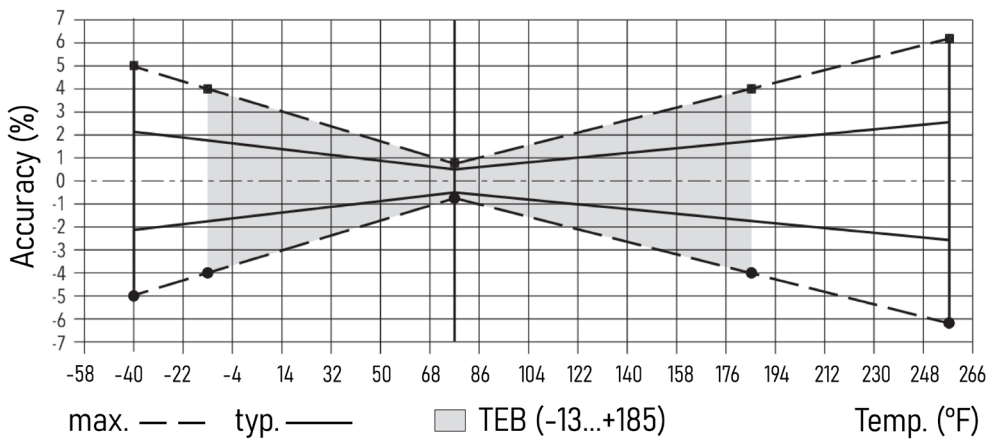
Mating Electrical Connection Assembly - *optional; will be quoted as a separate line item*

Part#	
PSE1	M12x1, 5 pole - straight with cable gland (field wireable)
PSE2	M12x1, 5 pole - straight with 1 meter PUR cable
PSE3	M12x1, 5 pole - straight with 3 meter PUR cable
PSE4	M12x1, 5 pole - straight with 1 meter PUR shielded cable
PSE5	M12x1, 5 pole - straight with 3 meter PUR shielded cable
PSE6	M12x1, 5 pole - 90° (field wireable)
PSE7	M12x1, 5 pole - 90° with 1 meter PUR shielded cable
PSE8	M12x1, 5 pole - 90° with 3 meter PUR shielded cable
PSE9	DIN 43650-C micro-mini (9.4mm) with cable gland (field wireable)
PSE10	DIN 43650-C micro-mini (9.4mm) with 1 meter PUR cable
PSE11	DIN 43650-C micro-mini (9.4mm) with 3 meter PUR cable
PSE12	DIN 43650-C micro-mini (9.4mm) with 1 meter PUR shielded cable
PSE13	DIN 43650-C micro-mini (9.4mm) with 3 meter PUR shielded cable
PSE24	Deutsch DTO4-3P with 1 meter PUR cable
PSE25	Deutsch DTO4-3P with 3 meter PUR cable
PSE26	Deutsch DTO4-4P with 1 meter PUR cable
PSE27	Deutsch DTO4-4P with 3 meter PUR cable

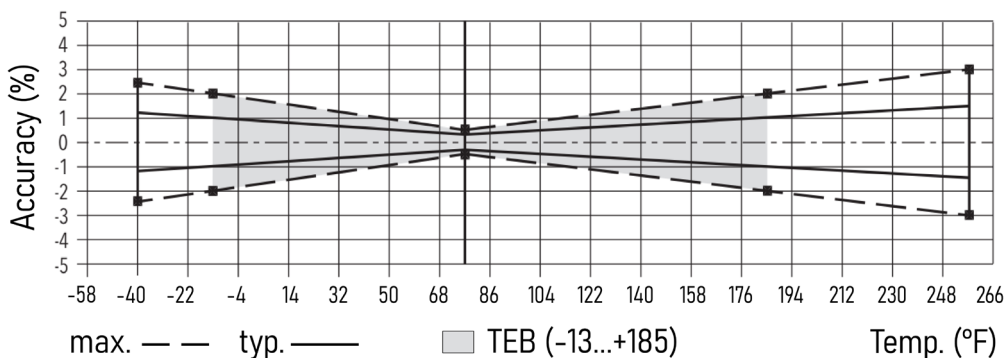
Technical Parameters

Technical Parameters		
Accuracy	At 77°F	±0.5% FS typical <i>(note: also available as ± 0.3% FS typical upon request)</i>
	TEB (Total Error Band) from -13...+185°F	±1.75% FS typical
	NLH (nonlinearity & hysteresis) at 77°F (BSL)	±0.2% FS typical
	TC zero point and span	± 0.03%
	Long term stability 1 year at 77°F	± 0.75%
	Rise time	1 ms typical
Electrical	Power-on delay	100 ms
	Inverse-polarity protection, short circuit strength at 77°F for 5 min.	4...20 mA: to Us = 32 VDC 0.5...4.5 VDC, 1...5 VDC, 1... 6 VDC ranges, 0...5 VDC, 0 ... 10 VDC, 0.1...10.1 VDC ranges: to Us = 28 VDC 0.5...4.5 VDC ratiometric: to Us = 14 VDC
Environmental	Media temperature	-40°F ... +185°F
	Ambient temperature	-40°F ... +257°F
	Protection	IP20, IP40, IP65, IP67, IP68
	Humidity	Max. 95% relative
	Vibration	15 g RMS (20...2000 Hz) (EN60068-2-64) 25 g sin (80...2000 Hz), 1 oct./min, (1x @ 77F) (EN60068-2-6)
	Shock	50 g / 1 ms 100g / 6 ms Male electrical M12x1 (EN60068-2-27)
EMC	Emission	EN/IEC 61000-6-3
	Immunity	EN/IEC 61000-6-2
Mechanical	Wetted parts (sensor)	Nitrogen-strengthened austenitic steel, hydrogen compatible
	Wetted parts (process connection)	1.4404 (AISI316L)
	Housing	1.40301 (AISI304)
	Sealing	FPM / EPDM / NBR
	Weight	appr. 110 g
	Installation torque	15...20 Nm

Measuring Accuracy 0.5%



Measuring Accuracy 0.3%



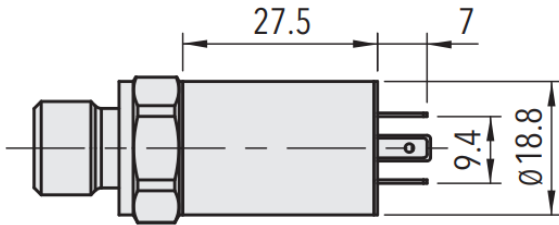
Pin-Out Options

		Protection / Electrical Connection																	
		IP65 ^{1) 2)}			IP67 ^{1) 2)}					IP67 ^{1) 2)}		IP67 ^{1) 2)}		IP67, 68 ^{1) 4)}		IP67, 68 ^{1) 4)}			
		Industrial Standard Contact Distance 9.4 mm			M12x1 4-pole					M12x1 5-pole		MIL-C 26482		DT04-3P 3-pole		DT04-4P 4-pole			
		6A			6C					6D		6J		6F		6G			
Output Signal	A	99	51	52	99	53	54	55	56	57	58	59	99	99	99	61	99	62	
		2	2	1	1	1	1	1	1	1	1	3	4	A	A	A	2	2	
Output Signal	B,C,D,E,F,G,H,J,K,L,M,N	1	4	2	3	2	4	2	3	2/3	4	2	1	B	B	C	1	3	
		4	3	4	4	4	2				4	4	5	E			3		
Output Signal	B,C,D,E,F,G,H,J,K,L,M,N	99	63	64	65	99	66	67	68	69	71	72	99	99	73	99	74	99	75
		1	2	3	1	1	1	1	1	1	1	1	2	A	A	A	A	2	2
Output Signal	B,C,D,E,F,G,H,J,K,L,M,N	2	1	1	3	2	3	4	3	2	2	4	4	B	C	C	B	4	1
		3	4	2	2	3	4	3	2	4	3	3	3	C/D	B/D	B	C	1	3
Output Signal	B,C,D,E,F,G,H,J,K,L,M,N	4	3	4	4	4	2	2	4	3			5	E	E			3	

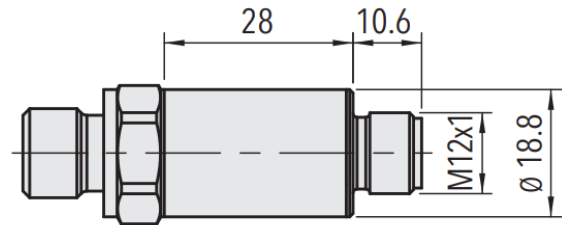
		Protection / Electrical Connection		
		IP67, IP68 ^{2) 3)}	IP67 ²⁾	IP67, IP68 ^{2) 3)}
		Cable	Cable	Cable
		PVC / PUR	EPD Raychem	Radox Tenuis
Output Signal	A	White	Red	Brown
		Brown	Black	Black
Output Signal	B,C,D,E,F,G,H,J,K,L,M,N	Yellow	Green	Yellow / Green
		White	Red	Brown
Output Signal	B,C,D,E,F,G,H,J,K,L,M,N	Green	White	Blue
		Brown	Black	Black
Output Signal	B,C,D,E,F,G,H,J,K,L,M,N	Yellow	Green	Yellow / Green

- 1) Provided female connector is mounted according to instructions
- 2) Ventilation via male electric plug/cable end
- 3) IP68, 290 psi, 30 min
- 4) IP68, 1,45psi, 4h

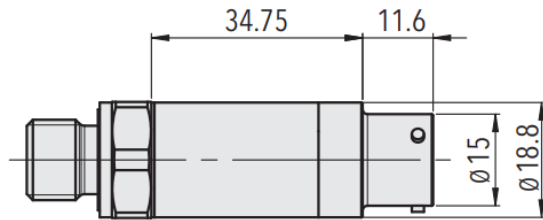
Electrical Connection Dimensions



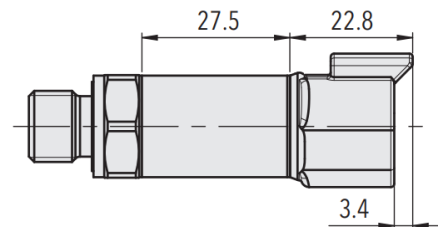
DIN 43650-C micro-mini (9.4mm)



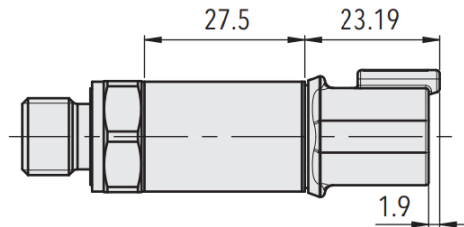
Male electrical connector M12x1, 4-pole / 5-pole



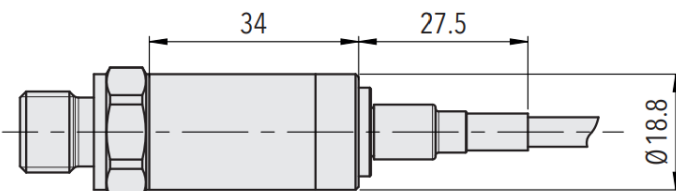
MIL-C 26482, 6-pole



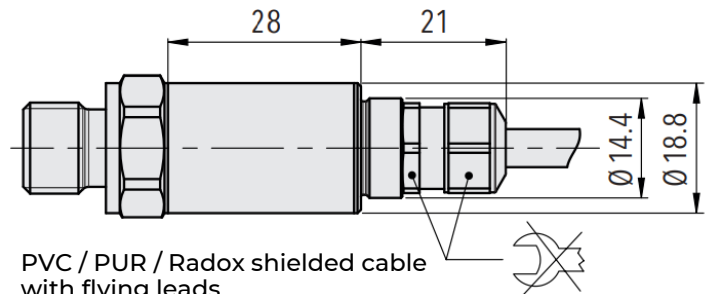
Deutsch 3-pole, DT04-3P



Deutsch 4-pole, DT04-4P

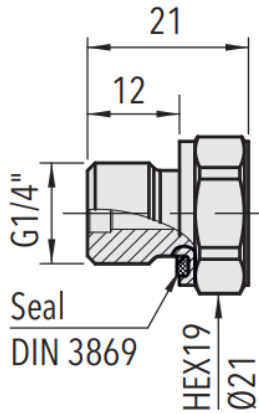


EPD Raychem shielded FDR25 cable with flying leads

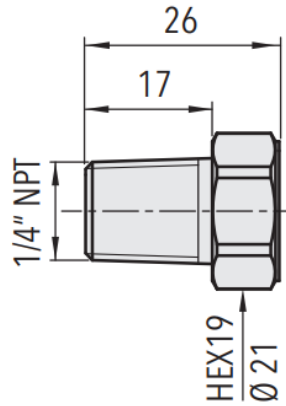


PVC / PUR / Radox shielded cable with flying leads

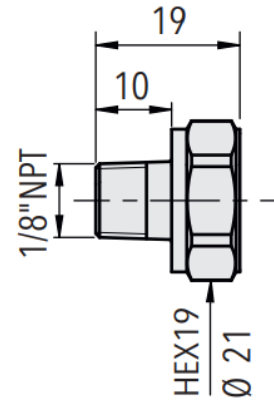
Process Connection Dimensions



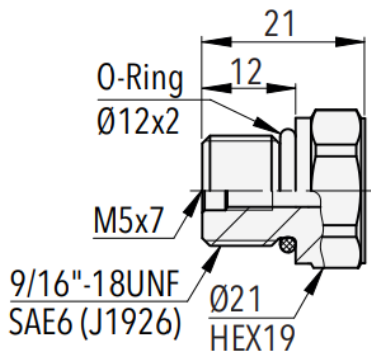
G1/4" male



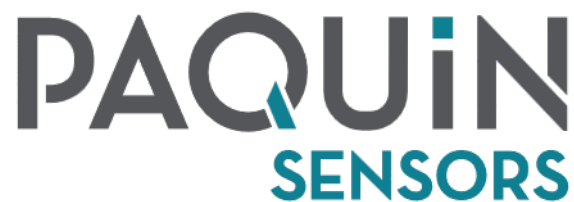
1/4" NPT male



1/8" NPT male



9/16"-18UNF-2A male,
SAE J1926-2



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