



PRESSURE TRANSMITTER PCS1

DESCRIPTION

The PCS1 series pressure transmitters are suitable for all industrial applications, especially in severe conditions where high temperatures, pressure peaks and high levels of shock and vibration are present.

They are extremely robust and reliable, thanks to their state of the art SMD electronics and compact all stainless steel construction.

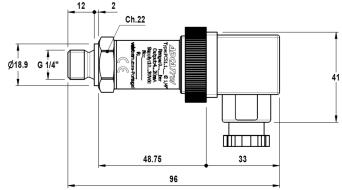
MAIN FEATURES

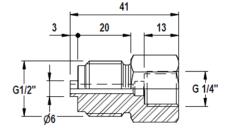
- Very compact size.
- All stainless steel construction.
- Extended process media temperature from -40° to +125 °C.
- 2-wire 4 20 mA current loop output.
- G 1/4" pressure port with embedded o-ring.
- Available in multiple pressure ranges.
- < 0.5% of full scale overall accuracy.
- < 1 ms fast response.
- Capable of withstanding high levels of mechanical shock and vibrations.

OPTIONS:

Siphons and connector fitting adaptors for ADCA SG series siphons. M12 electrical connection (IP67 protection class).

DIMENSIONS (mm)





DCA

Connection fitting adaptor for ADCA SG series siphons (optional)

PRESSURE RANGES (bar)												
RANGE	06	010	016	025	040	0100	0250	0400	0600			
Overpressure	12	20	32	50	80	200	500	800	1200			
Burst pressure	24	40	64	100	160	400	1000	1500	1500			

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We reserve the right to change the design and material of this product without notice.





TECHNICAL DATA							
Non linearity (BFSL)	±0.15% FS; ±0.25% FS (max)						
Hysteresis	±0.1% FS; ±0.15% FS (max)						
Repeatability	±0.025% FS; ±0.05% FS (max)						
Zero offset tolerance	±0.15% FS; ±0.25% FS (max)						
Span offset tolerance	±0.15% FS; ±0.25% FS (max)						
Accuracy at room temperature ¹⁾	< ±0.5% FS						
Pressure ranges ²⁾	See table						
Resolution	Infinite						
Overpressure (without degrading performance	See table						
Pressure containment (burst test)	See table						
Pressure media	Fluids compatible with stainless steel AISI 430F and 17-4 PH						
Housing	Stainless steel AISI 304						
Power supply	1030 V dc						
Dielectric strength	250 V dc						
Zero output signal	4 mA						
Full scale output signal	20 mA						
Allowed load	See load diagram						
Long term stability	<0.2% FS/per year						
Operating temperature range (process)	-40+125 °C (-40+257 °F)						
Operating temperature range (ambient)	-40+105 °C (-40+221 °F)						
Compensated temperature range	-20+85 °C (-40+185 °F)						
Storage temperature range	-40+125 (-40+257 °F)						
Temperature effects over compensated range (zero)	±0.01% FS/ºC; ±0.02% FS/ºC (max)						
Temperature effects over compensated range (span)	±0.01% FS/ºC; ±0.02% FS/ºC (max)						
Response time (1090% FSO)	< 1 ms						
Warm-up time 3)	< 30 s						
Mounting position effects	Negligible						
Humidity	100% RH non-condensing						
Weight	80g to 120g nominal						
Mechanical shock	100g/11ms according to IEC 60068-2-27						
Vibrations	20g max at 102000 Hz according to IEC 60068-2-6						
Type of protection	IP65/IP67						
Output short circuit and reverse polarity protection	Yes						
EC Conformity	According to directive 2014/30/EU						

FS= Full Scale.

1) Including Non-linearity, Hysteresis, Repeatability, Zero-offset and Span-offset (acc. to IEC 61298-2).

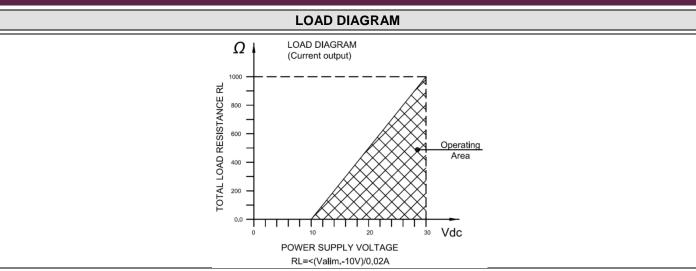
2) The operating pressure range is intended from 0.5% to 100% FS.

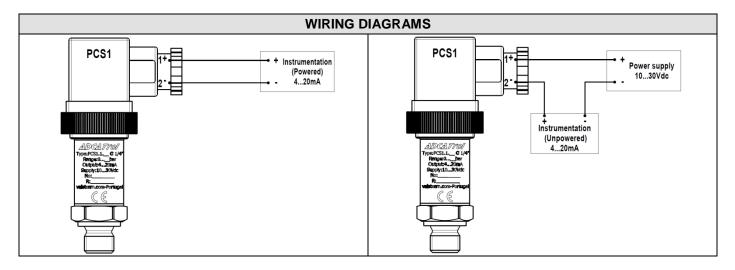
3) Time within which the rated performance is achieved.











ORDERING CODES PCS1								
Group Designation	PCS1	.1	.10					
Pressure transmitter	PCS1							
Electrical Connections								
4-pin DIN connector (EN 175301-803 Form A) IP65 ¹) .1								
Measurement Range								
06 bar			.6					
010 bar			.10					
016 bar			.16					
025 bar			.25					
040 bar			.40					
0100 bar			.100					
0250 bar			.250					
0400 bar			.400					
0600 bar			.600					

1) 4-pin male M12x1 connector IP67 is available under special request.

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