

APLISENS - APC-2000ALW SMART PRESSURE TRANSMITTER

APCG0160.X01

- HART protocol
- Rotatable display
- Option: SIL 2, DNV, PED, ATEX
- Range -7-+7mbar up to 0-1000bar



PRODUCT DESCRIPTION

The Aplisens APC-2000ALW Smart pressure transmitter is applicable to the measurement of the pressure, underpressure and absolute pressure of gases, vapours and liquids.

This pressure sensor comes with many extra options such as PED, MID, SIL 2, ATEX, DNV marine certificate, housing options, thread connections and materials making this sensor very versatile.

Through the data interchange (HART) with the sensor you can:

- Identify the transmitter
- Configure the output parameters as below:

Measurement units and the values of the start and end points of the range

Damping time constant

Conversion characteristic (inversion, user's non-linear characteristics)

- Read the currently measured hydrostatic pressure value, output current and percentage of measuring range
- Force an output current with a set value
- Calibrate the transmitter in relation to a model pressure

The active sensing element is a piezoresistant silicon sensor separated from the medium by a diaphragm and by specially selected type manometric liquid. The casing is made of aluminium alloy cast or SS316, degree of protection IP66/IP67. The design of the casing enables the use of a local display, rotation of the display by 90°, rotation of the casing by 0-355° relative to the sensor, and a choice of cable direction.

Application examples:

- Oil & Gas
- Process
- Chemical
- Water management

Please refer to the image below for ordering information.

Model	Code	Description
APC-2000		Smart pressure transmitter
Casing, output signal	/ALW.....	Aluminum housing, IP66/IP67, with display, output 4-20mA + Hart
	/MID.....	MID – certificate acc. to 2004/22/EC directive and OIML R140:2007 recommendations
Versions, certificates	/Exia.....	II 1/2G Ex ia IIC T4/T5 Ga/Gb, II 1 D Ex ia IIIC T105C Da
	/Exd.....	II 1/2G Ex ia/d IIC T5/T6 Ga/Gb, II 1/2D Ex ia/IIIC T85°C /T100°C Da/Db
Nominal measuring range	/10+100 bar ABS	10+100 bar ABS (10+100 MPa ABS)
	/2+20 bar ABS	2+20 bar ABS (0,2+2 MPa ABS)
	/2+20 bar	2+20 bar (0,2+2 MPa)
	/0,9+7 bar ABS	0,9+7 bar ABS (0,09+0,7 MPa ABS)
	/0,9+7 bar	0,9+7 bar (0,09+0,7 MPa)
Process connections	/M.....	Thread M20x1,5 (male) with Ø4 hole, wetted parts SS316L
	/G1/2.....	Thread G1/2" (male) with Ø4 hole, wetted parts SS316L
	/G1/2(Au).....	Thread G1/2" (male) with Ø4 hole, gold plated diaphragm
	/P.....	Thread M20x1,5 (male) with Ø12 hole, wetted parts SS316L
	/GP.....	Thread G1/2" (male) with Ø12 hole, wetted parts SS316L
	/1/2"NPTM.....	Thread 1/2"NPT Male, wetted parts SS316L
Electrical connection	/1/2"NPTF.....	Thread M20x1,5 with adapter to 1/2"NPT Female, wetted parts SS316L
	(without marking)	Packing gland M20x1,5
Accessories	/US.....	Thread 1/2"NPT Female
	/AL.....	Mounting bracket type AL for 2" pipe, material zinc steel
	/AL(SS).....	Mounting bracket type AL for 2" pipe, material stainless steel
	/ST.....	Stainless Steel plate riveted to the housing
	/MT.....	Stainless Steel Tag plate mounted on wire

TECHNICAL DATA

Approvals	Ex-ia
Connection	1/2 NPT
Deviation max	0,075 %
Electrical connection	M20x1,5
IP class	IP66
Manufacturer part no.	APC-2000/ALW/Exia/0+160 bar/0-160bar/1/2"NPTM
Material of body	Aluminium
Material of wetted parts	Stainless steel 316L
Pressure range max	160 bar
Pressure range min	0 bar
Pressure type	Relative
Signal type	4-20 mA / Hart
Supply voltage dc max	28 V DC
Supply voltage dc min	10.5 V DC
Temperature ambient from	-40 °C
Temperature ambient to	80 °C
Temperature of media from	-40 °C
Temperature of media to	120 °C