



## 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                 |
| 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               |