

APLISENS - APRE-2000G SMART DIFFERENTIAL PRESSURE SENSORS

APRE0070.001

0..70mBar 4-20mA/Hart Display Ø6mm

- Pressure range -100 mbar to 100 mbar
- Min range 0.2mbar
- Three body styles available
- ATEX version



PRODUCT DESCRIPTION

The Aplsens APRE-2000G Smart differential pressure transmitter is applicable to gases, to the measurements of their pressure, underpressure and differential pressure.

The ability to select the radical conversion characteristics also enables this differential pressure transmitter to be used in gas flow measurement systems using reduced pipes or other impeding elements.

The APRE-2000G Smart uses HART protocol and the following metrological parameters can be configured through this:

- Units of pressure
- Start and end-points of the set range
- Damping time constant
- Conversion characteristics (radical, inversion, user's non-linear characteristics)


And through the data interchange with the probe you can also:

- Identify the transmitter
- Read the currently measured hydrostatic pressure value, output current and percentage of measuring range

This smart differential pressure transmitter has an accuracy of 0.1%, with five standard measuring ranges to choose from and is also available in ATEX. Application examples:

- Blast pressure
- Chimney draughts
- Furnace chambers
- Clean rooms

Please refer to the image below for ordering information.

Model	Code	Description
APRE-2000G		Smart differential pressure transmitter
Certificates	/Exia.....	 II 1/2G Ex ia IIC T4/T5 Ga/Gb II 1 D Ex ia IIC T110°C Da I M1 Ex ia I Ma
Casing, output signal	/PD..... /PZ..... /N.....	Housing IP65 with DIN43650 connector, without display, output 4-20mA + Hart 304SS housing, IP66, without display, output 4-20mA + Hart Housing IP65, electrical connector PG-7 (ATEX version not available)
Nominal measuring range	/0+25 mbar..... /-2,5+2,5 mbar..... /-7+7 mbar..... /-25+25 mbar..... /-100+100 mbar.....	Range 0+25 mbar (0+2500 Pa) -2,5+2,5mbar (250+250 Pa) -7+7 mbar (700+700 Pa) -25+25 mbar (2500+2500 Pa) -100+100mbar (10+10 kPa)
		Min. set range 1mbar (100 Pa) 0,2 mbar (20 Pa) 1mbar (100 Pa) 5mbar (500 Pa) 20mbar (2 kPa)
Measuring set range	/...+... [required units]	Calibrated range in relation to 4mA and 20mA output
Process connections	/PCV.....	Process connection with terminal connecting for Ø6mm elastic pipe. Mounting bracket for wall mounting is a standard.
	/C.....	Thread 1/4 NPT F on cover flange. Material of cover flange 304ss. Allows mounting with a valve manifold.
Accessories	/M20x1,5/Ø6.....	Adapter from Ø 6mm elastic pipe for M20x1,5 M thread (only version with PCV process connection)
	/RedSpaw C.....	Connector to weld impulse pipes dia. 12 and 14 mm, material 15HM. (only version with process connection C type)
	/+VM-3/A.....	Assembled with a 3-way valve manifold (further specification of manifold - see data sheet) . Only version with C type process connection.
	/+VM-5/A.....	Assembled with a 5-way valve manifold (further specification of manifold - see data sheet) . Only version with C type process connection.
Other specification	/.....	Description of required parameters

TECHNICAL DATA

Connection	2xØ6mm
Deviation max	0,075 %
Electrical connection	M12x1 4-pole
IP class	IP65
Manufacturer part no.	APRE2000G/N/-100..100/ 0-70MBAR/PCV
Material of body	Plastic
Material of wetted parts	Brass
Pressure range max	70 mbar
Pressure range min	0 mbar
Signal type	4-20 mA / Hart
Static pressure	1 bar
Supply voltage dc max	36 V DC
Supply voltage dc min	12 V DC
Temperature ambient from	-25 °C
Temperature ambient to	60 °C
Temperature of media from	-25 °C
Temperature of media to	120 °C