

STATIC GAS MONITOR

SGM TYPE A REV.0 24/09/03

SGM TYPE A ANALOG RELATIVE PRESSURE & TEMPERATURE SENSOR

- Electronic pressure sensor
- Electronic temperature sensor*
- Compatible with UL sanitation
- High accuracy
- IP 65 protection
- Wide compensated temperature range
- Digital output both for pressure and temperature (*)
- Compatibility with corrosive fluids
- Primary element deposited on ceramic monolithic block

*optional



Type A transmitters are based on bridge resistance variation principle and the primary element is directly deposited on reaction mechanics by a silk screen-thick film process .

In this way the primary element can be very stable and offer the maximum protection because of monolithic ceramic block.

The innovative pressure sensor combines electronic precision with mechanical resistance for your complete safety in any conditions.

Low cost allows to use this sensor in many situation, above all in automation systems or as a supervisor for mechanical monitoring and process control.

For compatibility with most systems has 1/4 gas male output fitting and is suitable for alimentary control because of the choice of material in contact with the fluid in accord with UL sanitation.

4-20mA analog output allows to get quite long distance link between sensor and remote control.

Temperature output allows to record temperature variation of device under control.

Technical Data

Pressure FSO range (Bar)...0 – 2; 0- 5; 0- 10; 0-20*
Overpressure.....3X rated

Response time (10% to 90%).....5ms
Operating fluid temperature range..... - 40° + 125°C
Mechanical protection of active components.....IP65
Compatibility with corrosive fluids

*Versions with customized features can be provided

Performance Data

Pressure accuracy (T=Trated± 25°C).....+/- 1% FSS
TC zero point<0,025 %FSS/°C
Temperature accuracy.....+/- 1.5°C
Linearity error.....+/- 0.1% FSS
Compensated temperature range.....-20° + 85°C
Resolution.....infinite

Electrical Data

Output.....4-20mA
Excitation.....10-35 VCC
Load.....R<750ohm
Plug.....DIN 43650 MPM 4 poles connector
.....cable

Physical description

Material external.....stainless steel AISI304/brass
Material in contact with fluid:.....ceramic, stainless steel and EPDM
Pressure fittings.....1/4" gas male
Dimensions.....Φ25x 35mm
Weight.....100 g

