GAS & AIR PRESSURE SENSORS (MK8 SERIES) 2.

Gas pressure sensors can be used for the following purposes:

- Gas Valves Proving System (VPS) and/or gas pressure limits when used with an MM system.
- Gas pressure limits only when used with an MM system.

Air pressure sensors can be used for the following purposes:

- Combustion air pressure proving when used with an MM system.
- Draft pressure control when used with the Mk8 MM.

The gas and air pressure sensors can also be used for gas / air pressure monitoring application when used with the Mk8 DTI.



IP Rating	65
NEMA Rating	4
Check type	Self-check
Channels	Dual channel
Communication	Digital (RS485) and analogue
Max. Operating Temperature	85°C (185°F)
Min. Operating Temperature	-25°C (-13°F)
Housing	Aluminium
Wiring connection	2m (6.5ft) flying lead, pre-wired, screened
Installation	90° vertical (+/-10°)
Pressure measuring port	1/4" parallel NPT / BSP female
Differential pressure port	1/8" parallel NPT / BSP female
Supplied with	1/4" tapered NPT / BSP male nipple
Flying lead connector torque	1 to 3Nm max. tighten by hand only, do not over-tighten
Warranty	2 years limited warranty

Gas and Air Pressure Sensors Range

Gas Pressure Sensors Range

Part # mb		Pressure Range		Zero Range		
	mbar	"wg	PSI	mbar	"wg	PSI
MM80006	±68	±27	±1	±1.36	±0.54	±0.02
MM80008	±344	±138	±5	±6.88	±2.76	±0.1
MM80011	±1034	±415	±15	±20.68	±8.3	±0.3
MM80012	±2068	±831	±30	±41.36	±16.62	±0.6
MM80014	±6894	±2770	±100	±137.88	±55.4	±2

Air Pressure Sensors Range

D-44		Pressure Range			Zero Range		
Part#	mbar	"wg	PSI	mbar	"wg	PSI	
MM80005	±68	±27	±1	±1.36	±0.54	±0.02	
MM80013	±137	±55	±2	±2.74	±1.1	±0.04	

ATEX Certified Gas and Air Pressure Sensors



An ATEX approved range of the gas and air pressure sensors is also available for use in Hazardous Environments application where Explosion Proof equipment is required.

Classification: Ex Na IIC Gc

ATEX Certified Gas Pressure Sensors Range

Part#	Pressure Range			Zero Range		
	mbar	"wg	PSI	mbar	"wg	PSI
MM80006/EXP	±68	±27	±1	±1.36	±0.54	±0.02
MM80008/EXP	±344	±138	±5	±6.88	±2.76	±0.1
MM80011/EXP	±1034	±415	±15	±20.68	±8.3	±0.3
MM80012/EXP	±2068	±831	±30	±41.36	±16.62	±0.6
MM80014/EXP	±6894	±2770	±100	±137.88	±55.4	±2

ATEX Certified Air Pressure Sensors Range

D-44	Pressure Range			Zero Range		
Part #	mbar	"wg	PSI	mbar	"wg	PSI
MM80005/EXP	±68	±27	±1	±1.36	±0.54	±0.02
MM80013/EXP	±137	±55	±2	±2.74	±1.1	±0.04

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Gas / Air Pressure Sensor's Ports

The sensor has 2 pressure ports:

- Gas/ air pressure measuring port: used to measure the gas / air pressure.
- Differential pressure port; used as a reference to measure the atmospheric pressure, therefore it should always be exposed to atmospheric pressure.

Gas / Air Pressure Sensor's Selection

When selecting a gas pressure sensor for a specific application, it is necessary that the sensor's measuring range should be the closest to the gas pressure range of the application.

For example; a gas pressure sensor is required for the purpose of valve proving and gas pressure limits for a boiler with maximum gas pressure supply of 170mbar, therefore MM80008 should be selected. MM80011, MM80012, MM80014 or MM80006 should not be used.

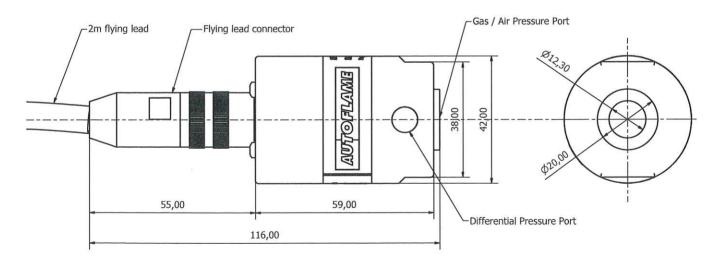
Wiring Gas / Air Pressure Sensor to an MM

For the purpose of VPS, gas pressure limits and air pressure proving, the sensors can be wired as follows:

Wir	Wire Colour Mk8 MM Terminal		Mini Mk8 MM Termina	
Brown	RS485 -	31	29	
Purple	RS485 +	32	30	
Blue	0V DC	33	48	
Red	15V DC	34	49	
Screen		Do not connect at MM side		

The screen wire on the flying lead is only used when connecting the sensor's lead to the MM / DTI through a terminal block, it must not be connected on the MM / DTI side.

Drawing and Dimensions



All dimensions in mm, 1 inch = 25.4mm.