

Pressure meets Ex

Reliable pressure measurement in hazardous areas, zones 2 and 22

- Pressure and temperature monitoring via IO-Link
- Optimised for use in the food industry
- ATEX self-declaration for the intended use in hazardous areas
- Variants with G1 sealing cone and G1 Aseptoflex Vario process connections



IP67 IO-Link

ifm – close to you!

Measuring range [bar]	Process connection / order no.	
	G1 sealing cone	G1 Aseptoflex Vario
-0.0125...0.25	**PM1C8A**	**PM1D8A**
-1...1	**PM1C9A**	**PM1D9A**
-1...10	**PM1C4A**	**PM1D4A**
-1...25	**PM1C3A**	**PM1D3A**

Common technical data		
Step response time analogue output	[ms]	30 (2L) / 7 (3L)
Accuracy (in % of the span) Characteristics deviation (to DIN EN 61298-2)		< ± 0.5
Medium temperature in hazardous areas	[°C]	-20...60
Materials (wetted parts)		ceramics 99,9 %, PTFE, stainless steel (1.4435 / 316L)
ATEX marking		II 3G Ex ec IIC T4 Gc II 3D Ex tc IIIC T85°C Dc
Protection rating		IP65, IP67

Reliable measurement in demanding environments

Where explosive gases or dusts may be present, reliable sensors are essential. The PM Ex is designed for pressure measurement in hazardous areas, zones 2 and 22. Typical applications include the handling of flour dust and filling processes involving alcohol or other flammable liquids.

The sensor is designed for demanding process environments and, thanks to its IP67 protection rating, withstands even intensive cleaning processes. Variants featuring the G1 sealing cone and G1 Aseptoflex Vario allow for flexible integration into a variety of systems, while FDA compliance supports their use in food and beverage applications. An ATEX self-declaration for the intended use in hazardous areas is available at market launch.

Two measured values, one sensor

In addition to the pressure value, the PM Ex also provides a temperature value via IO-Link. The pressure value can also be transmitted via an analogue signal. This can eliminate the need for a separate temperature sensor for basic temperature monitoring, depending on the application.

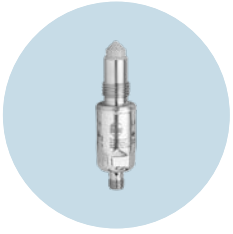
Maintenance-free and robust

On the process side, the pressure sensors are maintenance-free because they have no elastomer seal. The flush and robust ceramic measuring cell is resistant to pressure and vacuum shocks and to impact by abrasive substances.

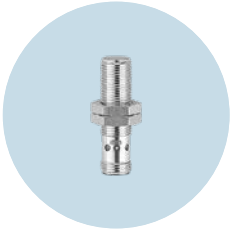
BEST FRIENDS



SI500A flow monitor
Measures liquids and gases in zones 2 and 22



LMT01A level sensor
Detects point levels in tanks and containers in zones 2 and 22



IF508A inductive sensor
Detects objects in zones 2 and 22

For further technical details, please visit: ifm.com/fs/PM1C8A

We reserve the right to make technical alterations without prior notice. · 11.2026
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