ifm electronic

Compact analogue pressure sensor

For efficient compressed air control and filter monitoring

- **One analogue output and one programmable switching output**
- **For differential or relative pressure measuring**
- **Two-colour LED display for immediate status detection**
- **Moisture-proof silicon measuring cell**
- **Measuring range -1...1 bar and -1...10 bar.**

IP 65   ⌀ 4...20 mA   Vibration and shock resistant   IO-Link

Filter monitoring, pneumatics and energy efficiency

Relative or differential pressure – the improved PQ series pressure sensors measure both. Ideal for condition-based maintenance, for example when a filter is exchanged or leakage is detected by pressure loss.

Moisture-proof and precise

The coated silicon measuring cell guarantees high overload resistance and an accuracy of ± 0.5 %. The special coating protects the measuring cell from air humidity and condensate.

Parameter setting

The parameter setting can be carried out via two push-buttons or IO-Link interface.

The compact sensors offer an analogue and a switching output, both of which are configurable.
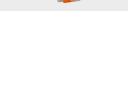
Pressure monitoring in pneumatic systems

Process sensors
Pressure sensors

Measuring range [bar]	P_{overload} max. [bar]	P_{burst} min. [bar]	Set point SP1 [bar]	Reset point rP1 [bar]	Order no.
M8 connector · output function 1 x NO/NC programmable + 1 x current output					
-1...1	20	30	-0.97...1	-0.98...0.99	**PQ3809**
-1...10	20	30	-0.90...10.00	-0.95...9.95	**PQ3834**

Accessories

Type	Description	Order no.
	DIN rail clip with M4 socket head screws, stainless steel (1.4310/301S21)	**E37340**
	Adapter R1/8 - R1/8, rotatable, nickel-plated brass	**E37350**
	T-pipe mounting set G1/2 with reducer, nickel-plated brass	**E37360**
	Connector for standard tube, Ø 6 mm, 4 pcs.	**E30076**
	Connector for standard tube, Ø 8 mm, 4 pcs.	**E30077**
	Memory plug, parameter memory for IO-Link sensors	**E30398**
	IO-Link interface, current consumption from USB port	**E30396**
	FDT framework software for parameter setting and analysis of units with DTM specification	**E30110**
	LINERECORDER SENSOR, software for parameter setting and set-up of IO-Link sensors	**ZGS210**

Further technical data

Operating voltage	[V DC]	18...32
Short-circuit protection		•
Reverse polarity protection		•
IO-Link device transmission type		COM2 (38.4 kbaud)

Accuracy / deviation (in % of the span)

Linearity error	<± 0.25 (BFSL), 0.5 (LS)
Linearity	< ± 0.15
Hysteresis	< ± 0.25
Repeatability	< ± 0.1
Long-term stability	< ± 0.05

Temperature coefficients (TEMPCO) in the temperature range 0...60°C (in % of the span per 10 K)

TEMPCO of zero	< ± 0.2
TEMPCO of the span	< ± 0.2

Medium temperature	[°C]	0...60
Shock resistance		50 g
Vibration resistance		20 g
Protection		IP 65
Wetted parts		brass, FPM (Viton), silicon (plated), PBT (Pocan)

Connection technology

Type	Description	Order no.
	M8 socket, 2 m black, PUR cable	**EVC150**
	M8 socket, 5 m black, PUR cable	**EVC151**
	M8 socket, 2 m black, PUR cable	**EVC153**
	M8 socket, 5 m black, PUR cable	**EVC154**

For further technical data please go to: www.ifm.com