

PN7 Pressure Switches

Product information for five ifm PN7 digital pressure switches

The ifm **PN7** series are electronic pressure switches with a display and IO-Link. The five models in this sheet share the same housing and electrical interface and differ by measuring range, from **0 to 1 bar** (PN7097) up to **0 to 100 bar** (PN7092).

At a glance

Product	Range	Overload / burst	Connection	Outputs
PN7092	0 to 100 bar	300 / 650 bar	G 1/4 internal	2 x PNP/NPN, IO-Link
PN7093	0 to 25 bar	150 / 350 bar*	G 1/4 internal	2 x PNP/NPN, IO-Link
PN7094	-1 to 10 bar	75 / 150 bar	G 1/4 internal	2 x PNP/NPN, IO-Link
PN7096	0 to 2.5 bar	20 / 50 bar*	G 1/4 internal	2 x PNP/NPN, IO-Link
PN7097	0 to 1 bar	10 / 30 bar	G 1/4 internal	2 x PNP/NPN, IO-Link

Common features

- Two switching outputs, programmable as PNP or NPN, plus IO-Link (COM2, 38.4 kBaud) on OUT1*
- 4-digit red/green display and rotating head for readability after installation
- Response time under 3 ms, switch point accuracy under +/-0.5% and repeatability under +/-0.1% of span*
- Stainless steel 316L, ceramic and FKM wetted parts; G 1/4 internal thread
- 18 to 30 V DC supply, IP65 / IP67 rating, operating temperature -25 to +80 C*

Product profiles

PN7092

PN7092 | 0 to 100 bar

High-range PN7 digital pressure switch for hydraulic and high-pressure process circuits.

- Measuring range 0 to 100 bar
- Overload pressure 300 bar, burst pressure 650 bar
- Two switching outputs, programmable as PNP or NPN, with IO-Link on OUT1
- Response time under 3 ms
- Wetted parts in stainless steel 316L and ceramic

PN7093

PN7093 | 0 to 25 bar

Mid-range PN7 digital pressure switch for pneumatic and general hydraulic circuits.

- Measuring range 0 to 25 bar
- Overload pressure 150 bar, burst pressure 350 bar*
- Two programmable switching outputs and IO-Link
- Switch point accuracy under +/-0.5% of span
- Rotating display head for easy reading after installation

PN7094

PN7094 | -1 to 10 bar

Compound-range PN7 switch that covers both vacuum and positive pressure.

- Measuring range -1 to 10 bar
- Overload pressure 75 bar, burst pressure 150 bar
- Suited to pneumatic systems that switch between vacuum and pressure
- Two programmable switching outputs and IO-Link
- Repeatability under +/-0.1% of span

PN7096

PN7096 | 0 to 2.5 bar

Low-range PN7 switch for low-pressure air, gas and fluid monitoring.

- Measuring range 0 to 2.5 bar
- Overload pressure 20 bar, burst pressure 50 bar*
- Two programmable switching outputs and IO-Link
- Fine resolution for low-pressure monitoring
- IP65 / IP67 housing rating

PN7097

PN7097 | 0 to 1 bar

Lowest-range PN7 switch for very low pressures such as filter, fan and air-flow monitoring.

- Measuring range 0 to 1 bar
- Overload pressure 10 bar, burst pressure 30 bar
- Rotating head (345 degrees)
- Two programmable switching outputs and IO-Link
- Wetted parts in stainless steel 316L, ceramic and FKM seal

Notes and sources

* Detailed data sheets for the PN7093 and PN7096 could not be retrieved, so their overload and burst pressures come from the ifm PN7 family table, and the shared electrical and environmental values are family values confirmed on the PN7092, PN7094 and PN7097 sheets. Confirm per model before specifying.

Process connection options and electrical versions (for example M12 connector) are as listed for the PN7 series; check the full part number for the exact variant.

Compiled from ifm PN7 data sheets and distributor listings. Confirm against the current ifm documentation before quoting or ordering.