

34D Electronic Pressure Sensor for Pneumatic & Allfluid Applications



CONTENTS

Introduction	02
Electronic Pressure Sensors	03
34D Electronic Pressure Sensor with IO-Link	04
Technical Specifications	06
Standard Options	06
Accessories	07

Breakthrough Engineering for a Better World

Norgren is part of global engineering organisation IMI plc. IMI is at the forefront of delivering the solutions we need in a changing world and is focused on **creating tremendous value by solving key industry problems in attractive markets and employing the best.**

Norgren has a proud history of creating innovative engineering solutions in precise motion control and fluid technology, and we collaborate with our customers across more than 50 countries in critical areas such as Factory Automation, Material Handling, Rail, Energy, Process Control, Life Science and Commercial Vehicles.

From improving speed, productivity, reliability and efficiency of equipment, to generating significant energy and cost savings, or lowering total cost of ownership across many industries, Norgren's high-quality solutions are designed to help customers pursue progress, achieve new goals and overcome problems.

With market-leading industry expertise, we offer the capability, resources, engineering intelligence and global support infrastructure to tackle the largest project demands.

Our world-class portfolio of fluid and motion control products include Norgren, Buschjost, FAS, Herion, Kloehn, Maxseal and Thompson Valves. Supplied either individually or combined into powerful customised solutions to meet customer needs.

Breakthrough engineering you can count on.

Electronic Pressure Sensors

Pressure sensing technology is critical when pressure monitoring for plant security, or pressure control for high level functionality are needed in an application.

Pressure sensors can be used to automatically monitor pressure levels in a pneumatic system, or be used for more complex monitoring functions in air, water, hydraulic or any allfluid fluid applications.

We can offer our customers over 50 years of pressure switch and sensor technology experience and expertise to find the appropriate solution for our customers.

Electronic pressure sensors are particularly suitable in applications where the classic mechanical pressure switch is not suitable.

Offering benefits in accuracy, life span and functionality the Norgren range is suitable for modern manufacturing technologies. Pressure set points are programmable either manually or remotely via IO-Link, with high levels of visibility via LEDs and digital displays.

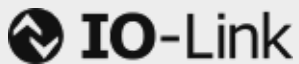


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34D Electronic Pressure Sensor with IO-Link

The Norgren 34D pressure sensor has a robust stainless steel body with G1/4 media connection port and M12 electrical connection, and is ideally suited for aggressive process control environments.



Product Highlights:

- » **Easy installation** – Body rotatable by 345 degrees relative to the body for easy alignment of the display during installation
- » **Connected** – IO-Link capability allows remote set-up and access to application performance data for improved system monitoring
- » **Simple set-up** – Easy and quick manual set up via three push buttons, or remotely via IO-Link
- » **Easy to use** – Large 10mm, two colour programmable display to easily identify switching status. LED status indicators can be viewed from rear.
- » **Universal** – Pneumatic and Allfluid process media in single product series with 9 different pressure range options from vacuum to 600 bar, making it suitable for all applications
- » **Robust** – Stainless steel (1.4404 / 316L) body with laser etched labelling and IP67 ingress protection
- » **Reliable** – Ceramic capacitive measuring cell provides for very high over pressure capability such as occurs with water hammer and cavitation (dynamic pressure peaks). The measuring cell is also very good at handling aggressive or abrasive media.





[Gang mounting option using modular brackets]



[IO-Link Capability]



[Easy to use]



[Easy Installation with housing rotatable through 345 degrees]

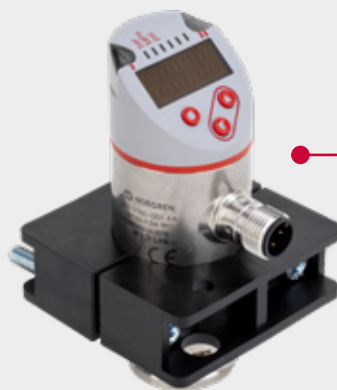
Technical Specifications

- » Suitable for aggressive environments – robust stainless steel body with FKM sealing and laser etched label
- » Ceramic capacitive measuring cell
- » Connection cable with straight or angled M12 connector
- » Vacuum to 600 bar pressure ranges
- » -25°C to 80°C operating temperature
- » High accuracy $\pm 0.5\%$ of span
- » Fast response time <math>< 3\text{ ms}</math>
- » High shock and vibration resistance 50 g (11 ms), 20 g (10 ... 2000 Hz)
- » Two output options
 - 2 x PNP / NPN (1 x IO-Link configurable)
 - 1 x PNP (IO-Link configurable), 1 x Analogue 4.20 mA / 0.10 v
- » Process connection rotatable by 345 degrees relative to the body for easy alignment
- » Status LEDs indicate units of measure
- » Switching point LEDs visible from 360 degrees
- » Angled display for easier visibility and operation
- » Parameter setting options:
 - Lower overall weight of machine
 - hysteresis
 - window; normally open
 - normally closed; analogue output; IO-Link
- » Ingress protection up to IP67

Accessories

The 34D pressure sensor is supported by a large range of cables, mounting brackets and flange adaptors.

**Mounting brackets
and flange adaptors**



Mounting clamp

Angle mounting
bracket

Standard Options

Standard Model	Description	Port Size	Pressure Range	Over Pressure	Output Signals	Accessory Model	Description
34D-V101G-DD1-AA	34D Pressure Sensor with IO-Link	G1/4	-1 ... 1bar	10 bar	2 x PNP/NPN (1x IO-Link configurable)	34D-BRKT-BODY	34D Bracket - Body
34D-V101G-DA1-AA	34D Pressure Sensor with IO-Link	G1/4	-1 ... 1bar	10 bar	1 x PNP (IO-Link configurable), 1 x analogue (4...20mA, 0...10V)	34D-BRKT-ANGLED	34D Bracket - Angled
34D-V110G-DD1-AA	34D Pressure Sensor with IO-Link	G1/4	-1 ... 10bar	75 bar	2 x PNP/NPN (1x IO-Link configurable)	34D-COVER-PROTEC	34D Protective Cover
34D-V110G-DA1-AA	34D Pressure Sensor with IO-Link	G1/4	-1 ... 10bar	75 bar	1 x PNP (IO-Link configurable), 1 x analogue (4...20mA, 0...10V)	34D-LABEL-TAG	34D Label Tag
34D-P016G-DD1-AA	34D Pressure Sensor with IO-Link	G1/4	0 ... 16bar	85 bar	2 x PNP/NPN (1x IO-Link configurable)	34D-DAMPING-SCRW	34D Damping Screw
34D-P016G-DA1-AA	34D Pressure Sensor with IO-Link	G1/4	0 ... 16bar	85 bar	1 x PNP (IO-Link configurable), 1 x analogue (4...20mA, 0...10V)	34D-FLANGE-ADPT	34D Flange Adaptor
34D-P040G-DD1-AA	34D Pressure Sensor with IO-Link	G1/4	0 ... 40bar	200 bar	2 x PNP/NPN (1x IO-Link configurable)	34D-14G-G-ADPT	34D Adaptor G1/4 ... G1/4
34D-P040G-DA1-AA	34D Pressure Sensor with IO-Link	G1/4	0 ... 40bar	200 bar	1 x PNP (IO-Link configurable), 1 x analogue (4...20mA, 0...10V)	34D-14G-NPT-ADPT	34D Adaptor G1/4 ... 1/4NPT
34D-P100G-DD1-AA	34D Pressure Sensor with IO-Link	G1/4	0 ... 100bar	300 bar	2 x PNP/NPN (1x IO-Link configurable)	0523057000000000	Connector M12 x 1 Straight x 2 m Long
34D-P100G-DA1-AA	34D Pressure Sensor with IO-Link	G1/4	0 ... 100bar	300 bar	1 x PNP (IO-Link configurable), 1 x analogue (4...20mA, 0...10V)	0523052000000000	Connector M12 x 1 Straight x 5 m Long
34D-P160G-DD1-AA	34D Pressure Sensor with IO-Link	G1/4	0 ... 160bar	350 bar	2 x PNP/NPN (1x IO-Link configurable)	0523055000000000	Connector M12 x 1 Straight - Wireable Without Cable
34D-P160G-DA1-AA	34D Pressure Sensor with IO-Link	G1/4	0 ... 160bar	350 bar	1 x PNP (IO-Link configurable), 1 x analogue (4...20mA, 0...10V)	0523058000000000	Connector M12 x 1 Angled x 2 m Long
34D-P250G-DD1-AA	34D Pressure Sensor with IO-Link	G1/4	0 ... 250bar	500 Bar	2 x PNP/NPN (1x IO-Link configurable)	0523053000000000	Connector M12 x 1 Angled x 5 m Long
34D-P250G-DA1-AA	34D Pressure Sensor with IO-Link	G1/4	0 ... 250bar	500 Bar	1 x PNP (IO-Link configurable), 1 x analogue (4...20mA, 0...10V)	0523056000000000	Connector M12 x 1 Angled - Wireable Without Cable
34D-P400G-DD1-AA	34D Pressure Sensor with IO-Link	G1/4	0 ... 400bar	800 bar	2 x PNP/NPN (1x IO-Link configurable)		
34D-P400G-DA1-AA	34D Pressure Sensor with IO-Link	G1/4	0 ... 400bar	800 bar	1 x PNP (IO-Link configurable), 1 x analogue (4...20mA, 0...10V)		
34D-P600G-DD1-AA	34D Pressure Sensor with IO-Link	G1/4	0 ... 600bar	800 bar	2 x PNP/NPN (1x IO-Link configurable)		
34D-P600G-DA1-AA	34D Pressure Sensor with IO-Link	G1/4	0 ... 600bar	800 bar	1 x PNP (IO-Link configurable), 1 x analogue (4...20mA, 0...10V)		

Cables

Cable M12 x 1
4-pin, straight



Protective cover



Cable M12 x 1
4-pin, 90°



Process connection adaptors

G1/4 - G1/4



G1/4 - 1/4 NPT



Norgren operates four global centres of technical excellence and a sales and service network in 50 countries, as well as manufacturing capability in Brazil, China, Czech Republic, Germany, India, Mexico UK and the USA.

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