



Baumer

Passion for Sensors

PP20H-D1 pressure sensor

For challenging hygienic applications.

 **IO-Link**



High-performance. Versatile. Competitive.

The PP20H is a fully welded pressure sensor with a condensation-resistant silicon measuring cell. Its modular design, total pressure range from –1 to 40 bar and wide range of process connections make it highly versatile. It is available with either a 4 ... 20 mA signal or IO-Link. It meets the high hygienic requirements of the food and pharmaceutical industries and is CIP and SIP-capable.

Your benefits

- **Process safety**

Excellent temperature stability and long-term stability and its high accuracy guarantee the safe monitoring, operation and control of demanding hygienic processes in a humid environment, even with frequent temperature cycles.

- **Less space required, greater flexibility**

The PP20H covers a wide media temperature range from –20 °C to 125 °C without a special cooling line. This makes the sensor more compact and means that less space is required in the system. A variety of applications can be fulfilled with just one configuration.

- **IO-Link for centralized configuration**

The IO-Link interface makes it possible to configure several sensors simultaneously. This simplifies switching point adjustment for different process stages and saves time.



PP20H with IO-Link.

Function	PP20H-D1
Connection / transmission	
IO-Link Dual Channel, 4 ... 20 mA	■
Push-pull switching point	■
Process data	
Process temperature (pressure cell)	■
Sensor temperature (CPU)	■
Barometer pressure / temperature	■
IO-Link channel with pressure or process temperature measuring signal	■
Zero point correction	■
Identification data	
3 configurable identification tags	■
Series / material number	■
Analytic data / diagnostic data	
Time in operation since last switched on	■

Digitization begins with the sensor.

More information and more effective processes with digital sensor data



Additional data through digital sensor connection

Data is the fundamental building block of process and product optimization. Use IO-Link to make valuable, additional data accessible. The PP20H pressure sensor is equipped with both an IO-Link interface and an analog output. Accordingly, apart from the analog 4 ... 20 mA signal, further details with regard to measuring cell pressure, pressure sensor temperature and the microchip can be recorded. This can be used, for example, to determine the temperature of the medium. Further data that can help to identify the sensor can be loaded at any time using tags that customers can configure individually.

PP20H Product overview

Product highlights	Applications	Process connections	Measuring range	Process conditions
Condensation-resistant measuring cell Compact installation from DN 25 Excellent price / performance ratio IO-Link for hygienic applications	Process pressure measurement Level control CIP method	G1/2 A hygienic G1 A hygienic Tri-clamp DN 25 to DN 51 Varivent® type F, N DIN 11851, DN 40, DN 50 DIN 11864-1-A, DN 40, DN 50	-1 ... 40 bar, smallest measuring range from 0.4 bar ±0.5 % FSR	Medium: -20 ... +125 °C Environment: -20 ... +85 °C

Housing	Conformity / Approvals	Electrical connections and output signals	Interfaces	Measurable media
Stainless steel AISI 316L, 1.4404 IP 67 IP 69K	cULus 3-A, EHEDG EU 1935/2004, 10/2011, 2023/2006	4 ... 20 mA IO-Link	IO-Link 1.1	Liquids Gases



Wireless IO-Link master

- On site sensor parameterization and monitoring
- Integrated WLAN and bluetooth LE
- Power supply via rechargeable battery
- Simple operation via mobile app

IO-Link master portfolio

- Connection of sensors to the fieldbus level and PLC
- 4 port, 8 port master for field use and control cabinet
- Parameterization via user-friendly web interface
- Ethernet/IP or profinet interface

USB-C IO-Link Master

- Fast and easy connection of IO-Link devices to a PC and the Baumer Sensor Suite
- Compact IO-Link master perfectly ideal for testing and selection of IO-Link devices
- Future-oriented data interface and power supply via USB-C

Cables

- Angled or straight female connector
- Sheath material: PUR, PP, PVC, PE-X or RADOX
- Ecolab certified, FDA compliant variants
- Halogen-free variants

The PP20H is FDA-compliant, meets the most important industrial requirements and complies with EU Regulations 1935/2004, 10/2011 and 2023/2006.



To learn more about the PP20H, visit: www.baumer.com/PP20H