

PROCESS AUTOMATION



HYDROSTATIC PRESSURE TRANSMITTER

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Barcon



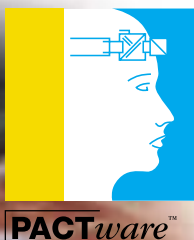
DURABLE, HIGH-PRECISION AND MODULAR PRESSURE MEASUREMENT WITH *Barcon*

In all areas of the process industry, pressure and temperature measurement play an important role. Recording pressure in various places in a reliable and precise manner is important for both the facility coordinator and operator.

Hydrostatic pressure measurement is a superior method of detecting the level of liquids in continuous level applications. In process control and storage tank applications in the chemical, petrochemical and pharmaceutical industries or in the food and environmental sectors, the levels of liquids and slurries are determined by the pressure applied to a sensor element.

Pepperl+Fuchs' Barcon line of products fulfill these measurement requirements reliably, inexpensively and with a wide range of flexibility. At the core of the modular concept is the sensor element. These ceramic or metal diaphragm sensors can be combined with a variety of process connections and various housing materials and designs. Plus, the wide range of electrical connections even includes fieldbus protocols such as PROFIBUS PA or HART. This flexibility allows Pepperl+Fuchs to generate a specific instrument to solve your particular application.

Chemical petrochemical



Variable electrical outputs

- analogue output
4 mA ... 20 mA
- HART
- PROFIBUS PA
- Display optional



Hygiene



al and al industry

Technology at a Glance

Ceramic Sensors

- Ceramic capacitive sensor
- Sensing range 100 mbar ... 40 bar
- Sealed with overload protection
- Hygienic applications
- Corrosive and abrasive media

Metal Sensors

- Welded piezo-resistive metal sensor
- Sensing range 1 bar to 400 bar
- Overload protection up to 600 bar

Measuring Accuracy

- Better than 0.2 % of configured sensing range
- Adjustable sensing range with 10:1 turn-down
- Long-term stability less than 0.1 % per year

Two-wire transmitter with display

- 4 to 20 mA analogue output
- HART functionality
- PROFIBUS PA
- **Stainless Steel or Aluminum Housing**
- **Modular Process Connections**
- **Certifications for Intrinsically Safe Versions (EExia/Class I-Div. 1)**

Sensors

- Ceramic Capacitive sensor
- Piezo-resistive metal sensor

Modular Process Connections





- Threaded connectors G 1/2; 1/2 NPT; M20 x 1,
- Flanges DIN/ANSI/JIS
- Flanges with extensions
- Hygienic connectors with a sealed membrane

Housing Material

- Stainless Steel
- Aluminium

Environmental industry

DIVERSITY AT A GLANCE

Notations	PPC-M20	LHC-M20	PPC-M10	LHC-M40
				
Pressure sensor measuring range	Ceramic sensors 100 mbar ... 40 bar 0 mbar ... 100 mbar up to 0 bar ... 40 bar		Metal sensors 1 bar ... 400 bar 0 bar ... 1 bar up to 0 bar ... 400 bar	
Area of application	<ul style="list-style-type: none">• Process pressure: gauge/absolute• Level measurement			
Housing	Aluminum or stainless Steel		<ul style="list-style-type: none">• without display (solid cover)• with display (cover with glass insert)	
Electrical connection	Cable gland M20 x 1.5/Cable entry ½”NPT/G½ HART plug (Han7D) Cable version (5 m)			
Process connectors	Threaded connectors: <ul style="list-style-type: none">• G ½• ½ - NPT• M20x1,5	Flush mounting: <ul style="list-style-type: none">• hygienic connections• flanges DIN/ANSI/JIS	Threaded connectors: <ul style="list-style-type: none">• G ½ flush mount• G ½ recessed with sealed membrane• ½ - NPT	Pressure interface: <ul style="list-style-type: none">• flanges DIN/ANSI/JIS• flanges with extensions• threaded connectors
Electronics	Analogue (4 mA ... 20 mA) SMART (4 mA ... 20 mA with HART) PROFIBUS PA electronics			
Certifications	EEx ia, FM, CSA, Dust Ex, 3A, EHEDG			

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