Huba Control

Product and Solution Compass

Safely to the right
pressure and flow sensor









#SwissSensorQuality

Swiss Sensor Technology. In use worldwide.

Huba Control is a leading global supplier of precision pressure and flow sensors. Founded in 1945 and based in Würenlos near Zurich, we supply standard and OEM solutions that are precisely tailored to our customers' requirements. With Swiss precision and quality, we support them in making their processes more efficient, safer and more sustainable.

The decisive advantage lies in our vertical integration: all steps take place under one roof – from development and production to 100 % final testing. At our headquarters in Würenlos, we ensure reproducible quality and reliable delivery capability on 5,500 m^2 of production space, 700 m^2 of which is ISO 7 cleanroom.

That's why leading companies worldwide rely on our sensors – in building and industrial automation, automotive, water and environmental technology.

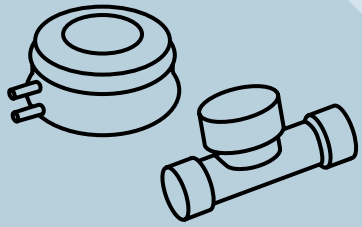


500+

More than 500
employees worldwide

40+

More than 40
distributors
worldwide



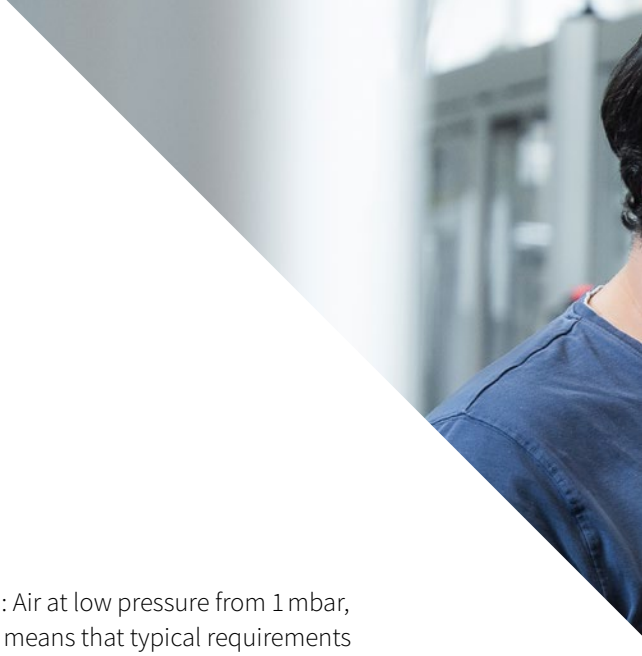
More than 10 million sensors are produced at the Würenlos site every year, 75 % of which are customized solutions



Second production site in
Chengdu, China

Headquarters
in Würenlos since 1945

Reliable industrialization with
OEM series quality



Technology and Quality

Our sensors cover a wide range of measuring ranges and media: Air at low pressure from 1 mbar, liquids up to 1,000 bar and flow rates from 0.5 to 240 l/min. This means that typical requirements in HVAC, industry, automotive and water/environment can be reliably met.

Quality right from the start

An integrated management system (ISO 9001, IATF 16949, ISO 14001, ISO 45001) ensures clear, documented processes throughout the entire product life cycle. Our development and quality assurance teams work hand in hand – from the initial design phase through to final production. Close coordination and many years of cooperation with customers ensure that the sensors reliably pass even the toughest tests and fulfil the required quality standards. Proven OEM processes such as APQP and PPAP also enable stable series production and a fast production ramp-up.

In-house testing technology for the endurance test:

- Calibration and test laboratories
- EMC laboratory
- Burst pressure testing up to 2,500 bar
- Helium leakage monitoring
- Long-term/drift test benches (pressure, temperature, vibration)
- Climate/humidity testing
- IP protection class testing etc.





Suitable for the application, compliant with standards

Depending on the application, we supply requirement- and approval-specific versions – including the necessary material and conformity certificates. Depending on the market, drinking water approvals, variants for natural refrigerants such as R290 and NIA-PFAS options are available in selected series.

Great sensor technology is a team effort

Our success has many faces: the people at Huba! Their expertise, team spirit and commitment to quality form the basis for the excellence of our sensors, services and strong partnerships with our customers.



Huba – manufacturer of pressure measurement technology

Pressure sensors for industrial applications

We offer a wide range of compact and robust pressure sensors for a variety of measurement tasks in liquids and gases. The industrial pressure sensors are characterized by high accuracy and long-term stability, with very high robustness and a long service life. The product range is characterized by a very large number of different versions, which means that you can always find the right solution for your application in the fields of HVAC, refrigeration technology, hydraulics or water management.

Advantages

- Wide range of applications from 50 mbar to 1,050 bar
- Measurement of relative or absolute pressure for overpressure and vacuum
- Compact and robust stainless steel design
- Measuring elements: Al_2O_3 ceramic or stainless steel
- Large number and versions of customer interfaces (mechanical and electrical)

Pressure transmitter from 50 mbar to 1,050 bar

Measurement: relative, absolute and differential pressure



Thick film technology

The core of our industrial pressure sensors: long-term stable, low hysteresis and extremely robust – developed for maximum reliability. Function and benefits online:
hubacontrol.com/technology

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Immersion and level probes

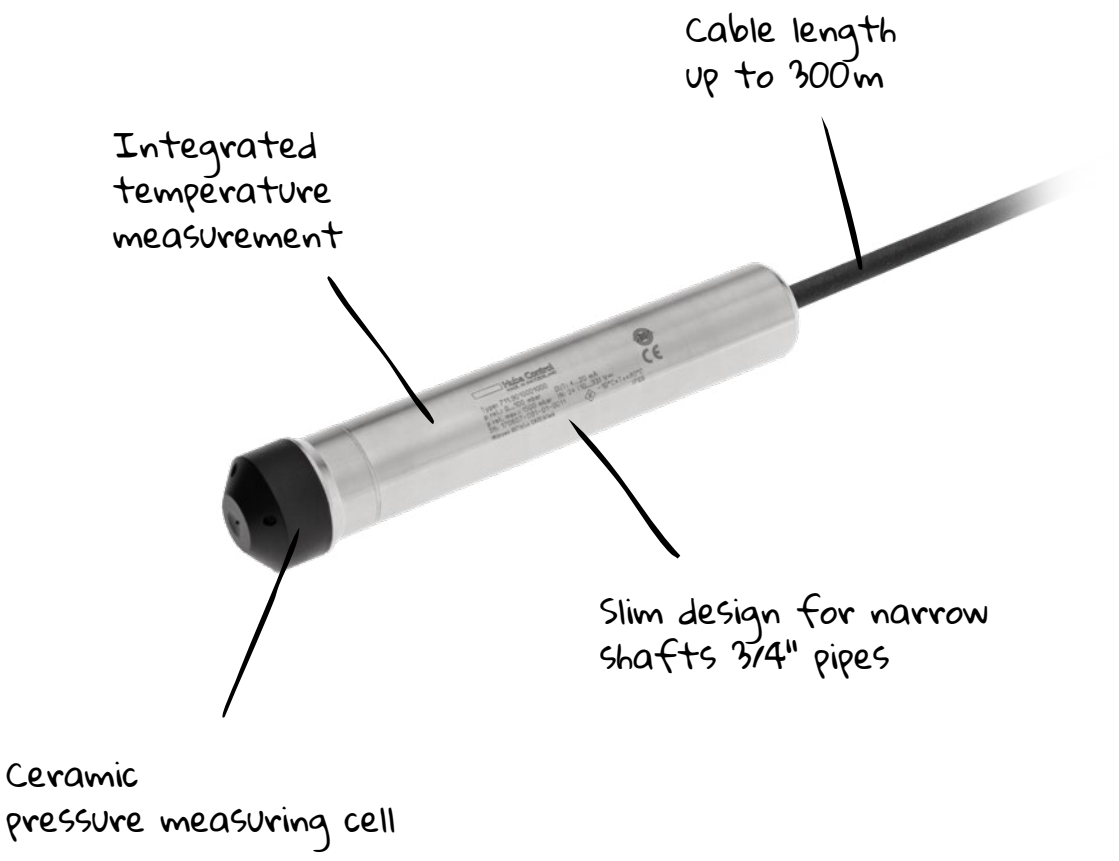
The hydrostatic level transmitters of the 7xx series are used for the continuous monitoring of liquid or water levels up to a depth of 200 meters. As level probes specially developed for submersible use, their wetted materials and cable materials allow operation in water, various fuels and numerous other liquids. Installation is flexible: either freely suspended in wells and tanks or as a screw-in version directly on the vessel.

Advantages

- Long-term stability and durability
- Low maintenance
- Highest measurement reliability
- Robust measuring principle
- Variable cable length: customizable – up to 300 m possible

Hydrostatic level transmitters from 100 mbar to 16 bar

Measurement: relative and absolute pressure



Differential pressure transmitters for ventilation applications

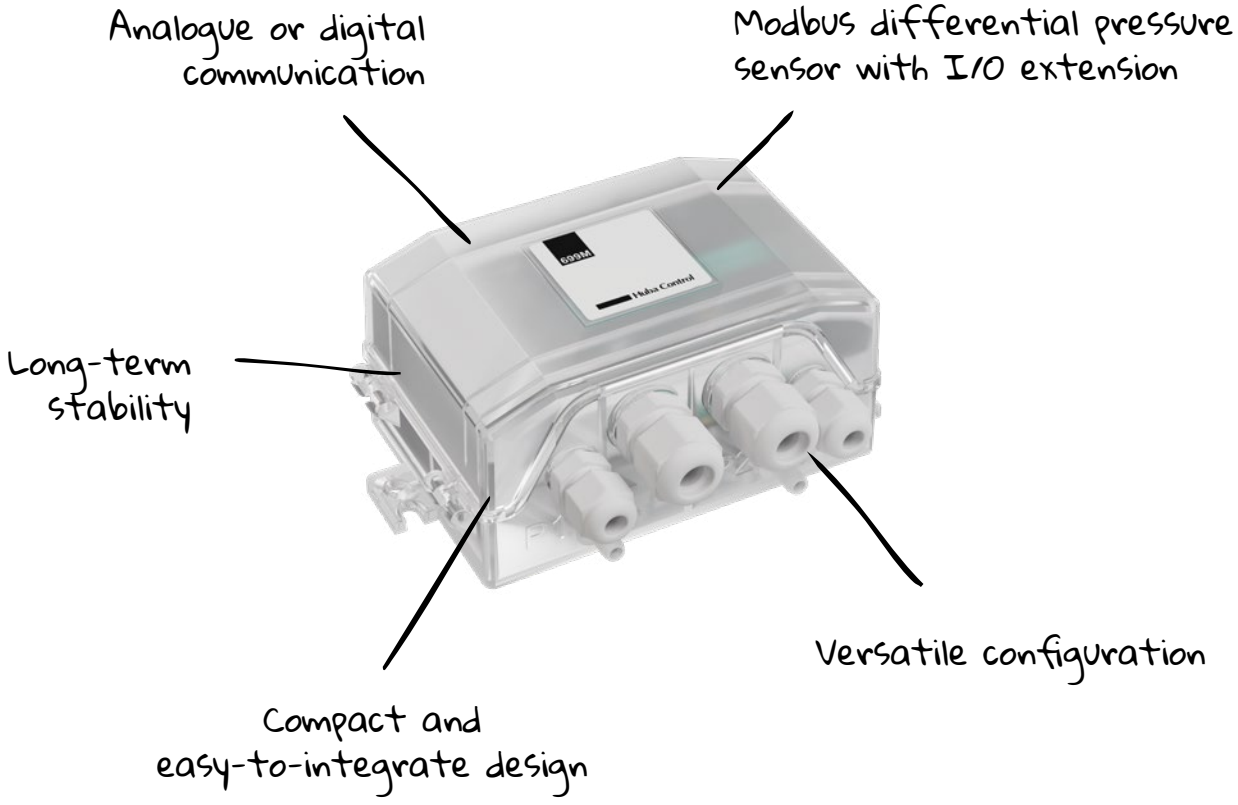
Huba's differential pressure transmitters are specially developed for the precise detection of differential, positive and negative pressures in air and non-aggressive gases. They are used wherever the highest measurement quality and long-term stability are required – for example in building automation, industrial process monitoring or in cleanroom and laboratory applications.

Advantages

- Excellent long-term stability, minimal drift over service life
- All-in-one devices with adjustable measuring ranges
- Parameterizable differential pressure or flow measurement
- Precise and reliable monitoring of variable air volumes in ventilation and air conditioning ducts
- Also available with Modbus interface

Differential pressure transmitter from 20 Pa to 15,000 Pa

Measurement: differential pressure



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Mechanical pressure switches with best-in-class long-term behavior

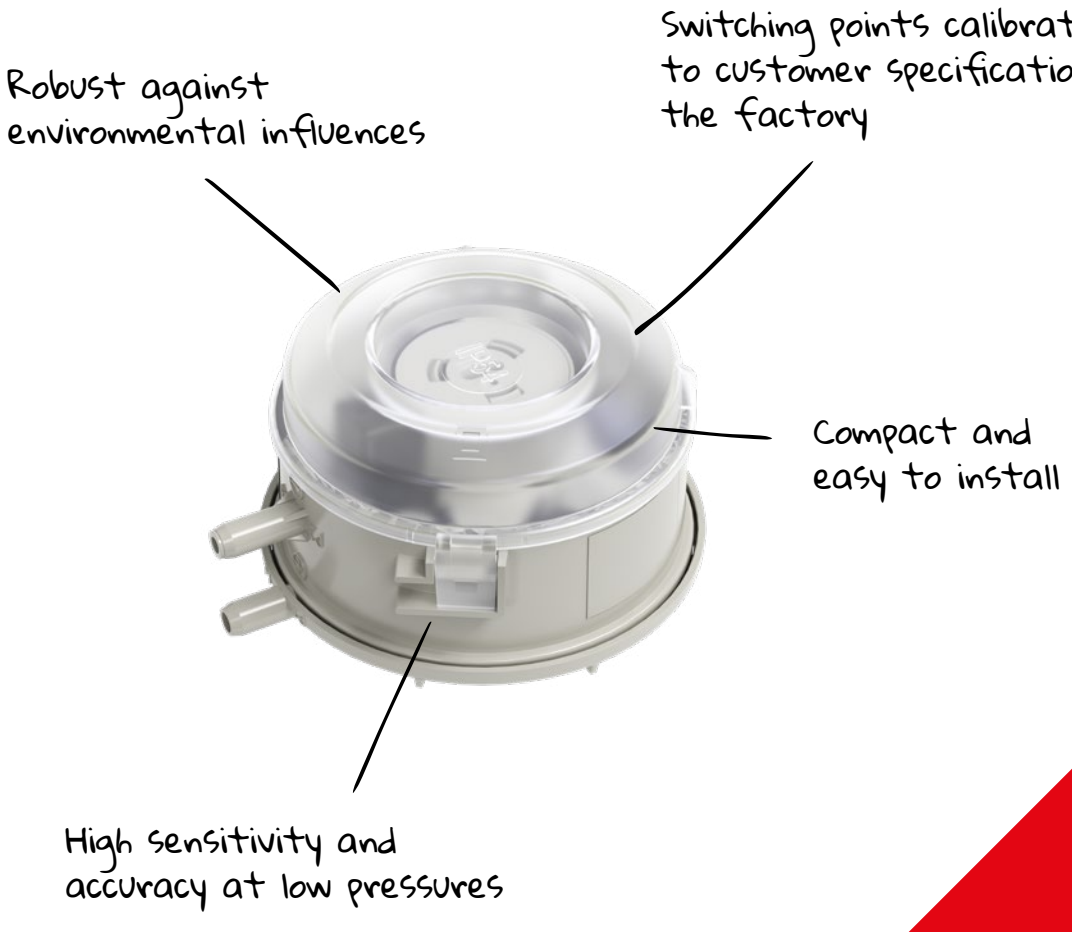
Huba pressure switches stand for precision Swiss engineering, maximum reproducibility and reliability. The contact system is constructed from precisely formed metal strips in the fully automated production line – a design benchmark that is still unrivalled in the market today. The switching contacts are optimized for maximum cycle stability; reproducibility and durability are our benchmark for this. The pressure switches are perfect for OEMs who require compact, economical and absolutely reliable pressure switches in large quantities.

Advantages

- Precise switching points with high accuracy
- Maximum longevity with millions of switching cycles
- Switching mechanism with unrivalled long-term stability
- Small size, flexible installation positions

Switching ranges from 20 Pa to 6,000 mbar

Measurement: relative and differential pressure



Which sensor fits your project?

hubacontrol.com/en/Applications.html

Huba – masters of the Vortex Street

Precise, long-term stable flow measurement

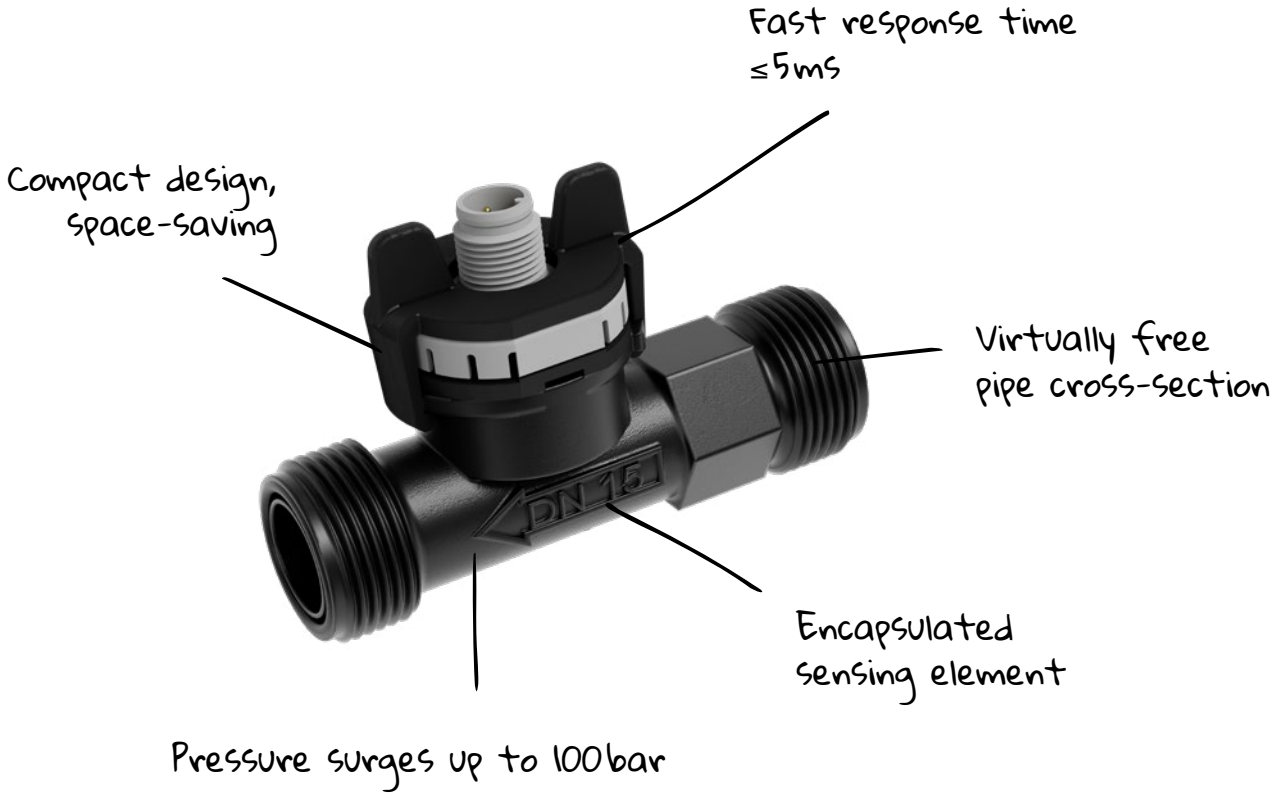
The vortex flow sensors of the series 2xx are based on the physical principle of the Kármán Vortex Street. They precisely measure the flow of low to medium viscosity liquids in a wide range of applications.

Advantages

- Virtually free pipe cross-section
- High long-term stability
- Very robust measuring principle
- Integrated temperature measurement
- Conductivity-independent measurement technology
- NIA-PFAS-free sensor element (Type 240)

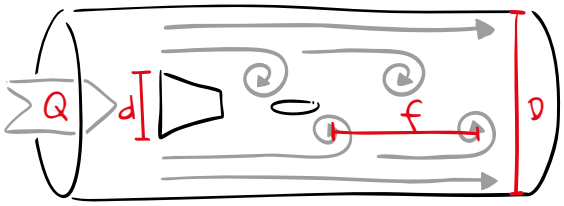
Vortex flow sensors from 0.5 to 240 l/min

Measurement: volumetric flow rate



Functional principle

Kármán Vortex Street: A bluff body in the fluid flow creates vortices, the frequency of which is directly proportional to the flow velocity of the medium and thus to the volumetric flow rate. The sensor detects these vortices, and the integrated electronics convert the frequency into a standardized output signal.



f = vortex frequency
Sr = Strouhal number
Q = volume flow
d = flow impounded area

$$Q = \frac{\pi \times D^2 \times f \times d}{4 \times Sr}$$

Plug-in connection set

Practical accessories are available for the Types 200 and 210 with plug-in connection, which enable the sensors to be installed quickly and easily in DN 8, 10, 15 and 20 pipes, saving on materials. This considerably simplifies installation and ensures efficient integration into various piping systems.



The right housing: protective shield against media and time

The housing material is a decisive factor for service life and reliability. Huba flow sensors are available in plastic, stainless steel, brass and gunmetal – suitable for different media and operating conditions.



Plastic
For applications with water and other non-aggressive media (e.g. refrigerants), for example in building services engineering (DN 6 – 25).



Stainless steel
For aggressive media, high temperatures and pressures. For use in chemicals, cooling systems and the food industry where maximum resistance is required (DN 8 – 32).



Brass
Robust, versatile and durable. Frequently used in building services and for neutral liquids (DN 8 – 32).



Gunmetal
Highly corrosion-resistant, preferably for drinking water applications and heating systems (DN 10 – 25).

Industrial pressure transmitters

		Pressure type/range		Media	Measuring element	Approvals	IP Rating
		absolute	relative		material		
Pressure transmitter 501		0 ... 16 bar	-1 ... 60 bar		ceramic		IP 65
Pressure transmitter 503			0 ... 25 bar		ceramic		IP 00 IP 65
Pressure transmitter 505			0 ... 16 bar		ceramic		IP 00
Pressure transmitter 506			-0.5 ... 60 bar		ceramic		IP 65
Pressure transmitter 511		0 ... 25 bar	-1 ... 600 bar		ceramic	UL	IP 65 IP 67
Pressure transmitter 512			0 ... 1000 bar		stainless steel	UL	IP 69K IP 68
Pressure transmitter 515		0 ... 25 bar	-1 ... 600 bar		ceramic		IP 69K
Pressure transmitter 519			0 ... 60 bar		ceramic	UL · ATEX · IECEx	IP 65 IP 67
Pressure transmitter 520			-1 ... 1000 bar		stainless steel	ATEX · IECEx · UL · NSF/ANSI 61 · WRAS · EN50155	IP 67 IP 65 IP 00
Pressure transmitter 522			0 ... 1000 bar		stainless steel	ATEX · IECEx · WRAS · ABS · BV · DNV · LR	IP 67 IP 65
Pressure transmitter 525			0 ... 0.6 bar		ceramic	UL · ATEX · IECEx	IP 67 IP 65
Pressure transmitter 526			0 ... 0.6 bar		ceramic		IP 67 IP 65
Pressure transmitter 527		0 ... 16 bar	0 ... 60 bar		ceramic	ATEX · IECEx · ABS · BV · DNV · LR	IP 67 IP 65

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Industrial pressure transmitters

		Pressure type/range		Media	Measuring element	Approvals	IP Rating
		absolute	relative		material		
Pressure transmitter 528		0 ... 16 bar	0 ... 60 bar		ceramic	ATEX · IECEx · UL · NSF/ANSI 61	IP 67 IP 65 IP 00
Pressure transmitter 540			0 ... 600 bar		stainless steel	UL · NSF/ANSI 61 · WRAS	IP 65 IP 67
Pressure transmitter 548			-1 ... 40 bar		ceramic	UL · NSF/ANSI 61	IP 65 IP 67
Pressure transmitter 550			0 ... 600 bar		stainless steel	UL	IP 69K IP 67
Pressure transmitter 555			0 ... 900 bar	H_2	stainless steel	EC79/2009	IP 69K IP 67
Pressure transmitter 556 Available Q1/26			0 ... 900 bar	H_2	stainless steel	ATEX · IECEx	IP 69K IP 67
Pressure transmitter 558		0 ... 6 bar	0 ... 60 bar		ceramic	UL	IP 69K IP 67
Pressure transmitter 560			-1 ... 150 bar		stainless steel	UL	IP 67
Pressure transmitter 578 Available Q4/25			0 ... 60 bar		ceramic		IP 65

Hydrostatic level transmitters

		Pressure type/range		Cable length	Measuring element	Approvals	IP Rating
		absolute	relative		material		
Hydrostatic level transmitter 711			0 ... 0.1 – 16 bar	0 ... 300 m	ceramic	ATEX · IECEx · UL · WRAS · ACS · ABS · BV · DNV · LR	IP 68
Hydrostatic level transmitter 712		0 ... 1.4 – 3 bar	0 ... 0.3 – 2.5 bar	2 ... 30 m	ceramic	ATEX · IECEx · UL-Ex · UL · WRAS · ACS	IP 68
Hydrostatic level transmitter 713		0.8 ... 1.4 – 6 bar	0 ... 0.6 – 16 bar	15 ... 175 m	ceramic	UL · WRAS · ACS	IP 68

Differential pressure transmitter

		Pressure type/range	Media	Measuring element	Approvals	IP Rating
		relative and differential		material		
Differential pressure transmitter 401		0 ... 8 mbar		ceramic	DVGW	IP 00
Differential pressure transmitter 402		0 ... 50 mbar		ceramic	DVGW	IP 00
Differential pressure transmitter 450		-1 ... 100 mbar		ceramic	UL	IP 00
Differential pressure transmitter 652		0 ... 1000 mbar		ceramic		IP 65
Differential pressure transmitter 664		-5 ... 2000 mbar (relative and differential) 0 ... 2000 mbar (absolute) 800 ... 1200 mbar (barometric sensor)		silicone		IP 00
Differential pressure transmitter 692		0 ... 25 bar		ceramic		IP 65
Differential pressure transmitter 698		-5 ... 500 mbar (differential) 0 ... 10 bar (relative)		silicone		IP 65
Differential pressure transmitter 699		-1 ... 50 mbar		ceramic	UL	IP 54 IP 65
Differential pressure transmitter 699M		0 ... 7000 Pa		ceramic	UL	IP 54

High pressure switches

		Pressure type/range		Media	Measuring element	Approvals	IP Rating
		absolute	relative		material		
Electronic pressure switches 521			0 ... 600 bar		stainless steel	UL	IP 67
Electronic pressure switches 529		0 ... 16 bar	0 ... 60 bar		ceramic	UL	IP 67

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Mechanical pressure switches

		Pressure type/range	Media	Measuring element material	Approvals	IP Rating
Mechanical Differential pressure switch 604		0.2 ... 50 mbar (relative and differential)		silicone	DVGW · UL	IP 54 IP 65
Mechanical Differential pressure switch 605		20 ... 400 Pa		silicone	DVGW · UL	IP 00 IP 30 IP 54 IP 65
Mechanical pressure switch 620/625		2 ... 6000 mbar (relative) -4 ... -900 mbar (negative)		NBR EPDM FPM silicone		IP 00 IP 54
Mechanical Differential pressure switch 630		6 ... 5500 mbar (relative and differential)		NBR EPDM FPM silicone		IP 00 IP 54 IP 65

Vortex flow sensors

		nominal size	Housing material	Measuring range flow rate	Measuring range temperature	Approvals	IP Rating
Vortex flow sensor 200		6, 8, 10, 15, 20, 25	plastic PA6T/6I (40 % glass fiber)	0.5 ... 150 l/min	-40 ... 125 °C	WRAS · ACS · UBA 1+	IP 20 IP 65
Vortex flow sensor 210		6, 8, 10, 15, 20, 25	plastic PA6T/6I (40 % glass fiber)	0.5 ... 150 l/min	-40 ... 125 °C	WRAS · ACS · UBA 1+	IP 65
Vortex flow sensor 230		10, 15, 20, 25	gunmetal	1.8 ... 150 l/min	-40 ... 125 °C	WRAS · ACS	IP 65
Vortex flow sensor 235		8, 10, 15, 20, 25, 32	brass	0.9 ... 240 l/min	-40 ... 125 °C	WRAS · ACS · UBA 1+	IP 20 IP 65
Vortex flow sensor 236		8, 10, 15, 20, 25, 32	brass	0.9 ... 240 l/min	-40 ... 125 °C	WRAS · ACS · UBA 1+	IP 65
Vortex flow sensor 237		8, 10, 15, 20, 25, 32	stainless steel	1.1 ... 240 l/min	-40 ... 125 °C	UL	IP 65
Vortex flow sensor 240		6, 8, 10, 15, 20, 25	plastic PPS (40 % glass fiber)	0.5 ... 150 l/min	-40 ... 125 °C	UL · WRAS	IP 65

Advice in your region:
hubacontrol.com/en/Service/Locations.html

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