

Pressure Sensors Type IPS PPSU

Inline Pressure Sensor

IPS the new inline pressure sensor from AVS-Römer





Inline pressure sensor for measuring pressure of liquid and gaseous media.

The ceramic pressure measuring cell combined with the proven ELSA push-in connector made from PPSU is mainly used in the food industries.

Other features:

- minimal dead space
- temperature-compensated evaluation electronics
- materials and constructional design especially optimised for food applications

Variations / options:

- other tube connections
- other material for seal
- other pressure range

CHARACTERISTICS

GENERAL

Constructional design	Ceramic pressure measuring cell
Product name	Inline pressure sensor
Product type	IPS-958P3-...
Nominal diameter	DN 2.5 up to DN 6
Connection	ELSA plug fittings for pipe/tube OD 4 to OD 8
Ambient temperature	0 °C to +60 °C
Medium temperature	0 °C to +140 °C
Medium viscosity	up to approx. 35 mm ² /s
Body material	PPSU (KTW approved, NSF certified)
Measuring cell material	Al ₂ O ₃
O-ring material	FKM (FDA-compliant) or EPDM (FDA compliant, KTW authorized, NSF certified)
Mounting method	by spring clip, internal width Ø18-22 mm (not included in scope of supply)
Mounting position	Preferably upright
Approval	NSF/ANSI 169

PNEUMATIC - HYDRAULIC

Nominal pressure	up to PN 16 in accordance with the specification table
Pressure range	0 bar up to allowable operating pressure OP in accordance with the specification table
Flow rate	Kv-value in accordance with the specification table
Medium	Gases or liquids which do not corrode the materials specified

ELECTRIC

Supply voltage	5 V DC (24 V DC on request)
Voltage tolerance	±10 %
Output voltage	0.5-4.5 V DC (ratiometric) (0-5 V DC, 0-10 V DC on request)
Electrical connection	0.75 m 3-pole screened cable (LiYCY 3 x AWG 26), strand ends pre-tinned.
Protection class	IP65

ACCURACY

Total error	±1.5 % FS
Temperature error zero point	<±0.02 % FS/K
Temperature margin of error	-0.012 % FS/K
Response time	<2 ms

Caution! PPSU should not be used in contact with aromatic hydrocarbons, oxidising acids, acetone, chlorinated hydrocarbons, ethers or ketones! Also, PPSU should not be placed directly in contact with anaerobic adhesives!

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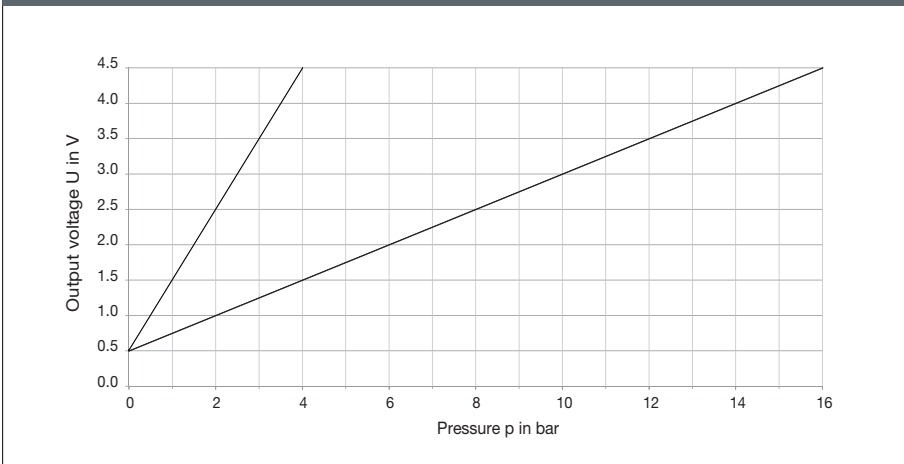


Pressure Sensor - Type IPS

 Product group **730** Max. Allow. OP at ambient temp.
 T_{min} 0 °C, T_{max} +60 °C

Plastic PPSU


for tube OD	DN	Kv-value water [l/min]	PN	Allow. OP [bar] at medium temp.			L	L1	Seal material	Type	Order number	Price
				20 °C	100 °C	140 °C						
4	2.5	2.4	4	4	4	4	38	42	FKM (FDA-compliant)	IPS-958P3-4FF-04	390564	o. r.
4	2.5	2.4	4	4	4	4	38	42	EPDM (FDA-compliant)	IPS-958P3-4PF-04	390565	o. r.
4	2.5	2.4	16	16	12	6	38	42	FKM (FDA-compliant)	IPS-958P3-4FF-16	390553	o. r.
4	2.5	2.4	16	16	12	6	38	42	EPDM (FDA-compliant)	IPS-958P3-4PF-16	390554	o. r.
6	4	8.1	4	4	4	4	39	42	FKM (FDA-compliant)	IPS-958P3-6FF-04	390562	o. r.
6	4	8.1	4	4	4	4	39	42	EPDM (FDA-compliant)	IPS-958P3-6PF-04	390563	o. r.
6	4	8.1	16	16	12	6	39	42	FKM (FDA-compliant)	IPS-958P3-6FF-16	390551	o. r.
6	4	8.1	16	16	12	6	39	42	EPDM (FDA-compliant)	IPS-958P3-6PF-16	390552	o. r.
8	6	24	4	4	4	4	45	43	FKM (FDA-compliant)	IPS-958P3-8FF-04	390576	o. r.
8	6	24	4	4	4	4	45	43	EPDM (FDA-compliant)	IPS-958P3-8PF-04	390577	o. r.
8	6	24	16	16	12	6	45	43	FKM (FDA-compliant)	IPS-958P3-8FF-16	390572	o. r.
8	6	24	16	16	12	6	45	43	EPDM (FDA-compliant)	IPS-958P3-8PF-16	390573	o. r.

Characteristic Curve 0-4 bar or 0-16 bar 0.5-4.5 V (ratiometric)

Illustration
