

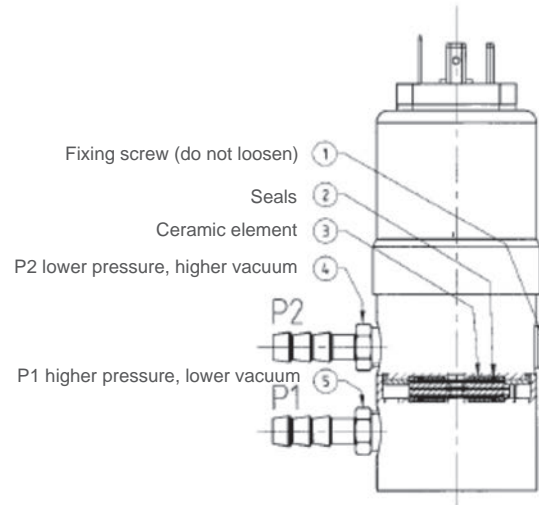
Ask about
Traceable Calibration

Huba Control

Huba Differential Pressure Transmitter 692

Features

- Very low temperature sensitivity
- High resistance to extreme temperatures
- No mechanical ageing
- No mechanical creepage
- Modular system and choice of materials to suit individual applications



The differential pressure transmitter of type series 692 with proven, unique ceramic technology, features calibrated and amplified sensor signals which are available as standardised voltage or current outputs. Various application-specific pressure and electrical connections and housing materials suitable for different media can be provided.

SPECIFICATIONS

Pressure range

Relative pressure, see order code selection table

Weight

Approx. 430 grams

Overload

See order code selection table

Installation arrangement

Unrestricted

System pressure

(P1 and P2 simultaneously)
25 bar to pressure range 6 bar
50 bar on pressure range 10/16/25 bar

Signal

0-5V

Power Supply

11-33 VDC
24 VAC $\pm 15\%$
3-wire cable
18-33 VDC
24 VAC $\pm 15\%$
3-wire cable
11-33 VDC
2-wire cable

Rupture pressure

1.5 x system pressure

0-10V

4-20 mA

Short circuit-proof and protected against polarity reversal.
Each connection against other with max. \pm supply voltage.

Accuracy (linear signals)

Total of linearity, hysteresis and repeatability
 $< \pm 0.5\%$ fs at 2 x nominal pressure
 $< \pm 0.8\%$ fs at 3 x nominal pressure
 $< \pm 1.3\%$ fs at 5 x nominal pressure
Zero point residual voltage
 < 50 mV at 2 x nominal pressure
 < 75 mV at 3 x nominal pressure
 < 125 mV at 5 x nominal pressure

Load

0-5V $> 10k$ Ohm
0-10V $> 10k$ Ohm
4-20 mA $\leq \frac{\text{supply voltage} - 11 \text{ V}}{0.02 \text{ A}}$ [Ohm]

Materials in contact with medium

Ceramic/ Stainless steel 1.4305, PVDF
Sealing material:
Option FPM, EPDM, NBR, MVQ
Acc. To order code selection table

Current consumption

At maximum signal output
0-5V < 5 mA
0-10V < 5 mA
4-20 mA < 25 mA

Temperature

Medium and ambient temperature
 $-15 \dots +80^\circ\text{C}$
TC zero point see order code selection table
TC sensitivity (%fs/K)
 $< \pm 0.015$ at 2 x nominal pressure
 $< \pm 0.022$ at 3 x nominal pressure
 $< \pm 0.037$ at 5 x nominal pressure

Electrical connection/Protection standard

Cable 1.5 metres, IP 65, with cable gland (threaded)
Round plug connector DIN 41524, 3-pole, IP65
Connector DIN EN 175301-803-A, IP65

Calibration

Adjustment versions (zero point/slope approx. $\pm 10\%$)

Load < 50 Hz

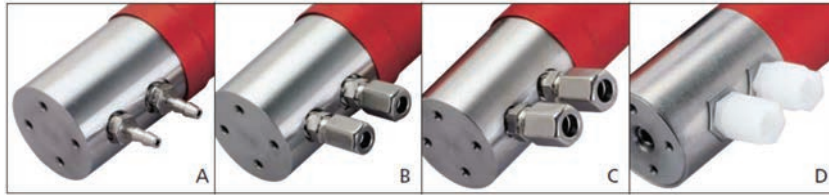
Dynamic Response

Suitable for static and dynamic measurements
Response time < 5 ms

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Versions

- A - Pressure Tube Tip for pipe Ø 4 mm
- B - Screw fitting for pipe Ø 6 mm
- C - Screw fitting for pipe Ø 8 mm
- D - Screw fitting PVDF for pipe Ø 8 mm

ORDERING TABLE

692.		9	X	X	X	X	X	X	X	X
Pressure ranges¹	Overload on one side									
	P1	P2	TC0 (fs/K)							
0 ... + 0.1	max. 0.6 bar	0.6 bar	0	0						
0 ... + 0.2	max. 1.2 bar	1.2 bar	0	2						
0 ... + 0.2	max. 0.6 bar	0.6 bar	4	0						
0 ... + 0.25	max. 1.2 bar	1.2 bar	0	3						
0 ... + 0.25	max. 0.6 bar	0.6 bar	4	1						
0 ... + 0.3	max. 0.6 bar	0.6 bar	0	1						
0 ... + 0.4	max. 1.2 bar	1.2 bar	0	4						
0 ... + 0.4	max. 2 bar	2 bar	0	5						
0 ... + 0.5	max. 1.2 bar	1.2 bar	0	6						
0 ... + 0.5	max. 3 bar	3 bar	0	7						
0 ... + 0.6	max. 1.2 bar	1.2 bar	0	8						
0 ... + 0.6	max. 3 bar	3 bar	0	9						
0 ... + 1	max. 2 bar	2 bar	1	1						
0 ... + 1	max. 5 bar	5 bar	1	2						
0 ... + 1.6	max. 3.2 bar	3.2 bar	1	3						
0 ... + 1.6	max. 12 bar	12 bar	1	4						
0 ... + 2.5	max. 5 bar	5 bar	1	5						
0 ... + 2.5	max. 12 bar	12 bar	1	6						
0 ... + 4	max. 8 bar	8 bar	1	7						
0 ... + 4	max. 12 bar	12 bar	1	8						
0 ... + 6	max. 12 bar	12 bar	1	9						
0 ... +10	max. 20 bar	12 bar	3	0						
0 ... +16	max. 32 bar	12 bar	3	1						
0 ... +25	max. 50 bar	12 bar	3	2						
▲ Full scale signal at these pressures										
Sealing materials	FPM	Fluoro-elastomer						0		
	EPDM	Ethylene propylene						1		
	NBR	Butadiene Acrylonitrile						2		
	MVQ	Silicone polymer						3		
Calibration	Factory calibrated							0		
	Factory calibrated, with adjustable zero point and slope							1		
Outputs and power supply	0 - 5 V	11.0 ... 33 VDC / 24 VAC ±15 %							0	
	0 - 10 mA	18.0 ... 33 VDC / 24 VAC ±15 %							1	
	4 ... 20 mA	11.0 ... 33 VDC							7	
Electrical connections²	Cable 1.5m									0
	Connector	DIN EN 175301-803-A								1
	Cable 1.5m	DIN 41524 3-pole								3
Pressure connections	without connections	1/8-27 NPT/PVDF G 1/8								0
	Pressure-tube tip	CuZn vni								1
	Pressure-tube tip	CuZn vni								2
	Pressure-tube tip	PVDF								3
	Screw fitting	CuZn vni								4
	Screw fitting	Inox 1.4305								5
	Screw fitting	CuZn vni								6
	Screw fitting	Inox 1.4305								7
	Screw fitting	PVDF								8
	Screw fitting	PVDF								9
	Outside thread	7/16-20 UNF (CuZn vni)								A
	Adapter inside	G 1/8 Inox								B
	Adapter outside	G 1/8 with union nut (CuZn)								C
Case in contact with medium	Stainless steel									1
	PVDF all ranges up to 6 bar max, overload and system pressure max.12 bar									2
	Stainless steel with pressure tip orifice									4
	Stainless steel, free of oil and grease (only seal FPM, not compound-filled)									5
	Stainless steel with pressure tip orifice, free of oil and grease (only seal FPM, not compound-filled)									6
Accessories										
Female connector	with seal (IP 65 when installed and screwed)	DIN EN 175301-803-A						1	0	3
Round plug connector (coupling socket)		DIN 41524 (IP 65)						1	0	3
Mounting bracket								1	0	1
Test certificate								1	0	4

¹ Other pressure ranges on request
² Without female connector

MODEL	DESCRIPTION
692	Differential pressure transmitter. (Kindly provide full model from the ordering selection table)

Temperature

Calibrator

Pressure

Humidity

Recorder & Dataloggers

Air Flow

Level & Flow

Portable Instruments

EX Proof / IS

Environment

Aerospace