

HCPT-32 S series

Economical, compact pressure transmitters

Application

- ☆ Inspection of pneumatic systems
- ☆ Engineering mechanics
- ☆ Hydraulics and pneumatics
- ☆ Pump stations
- ☆ Energy and water treatment
- ☆ HVAC systems
- ☆ In the regulation and automation of processes

Advantages

- ☆ Compact and cheap
- ☆ High-strength stainless steel construction
- ☆ Automatic temperature compensation 0...50°C
- ☆ Low static and thermal errors
- ☆ EMI/RFI protection
- ☆ Resistance to overload and corrosion
- ☆ Glue filling process, waterproof circuit
- ☆ CE, RoHS certified

Characteristic

Durable construction ensures resistance to vibration, shocks, large temperature fluctuations, RFI and other extremes environmental conditions that are typical in the applications industrial. The execution options include various connections process and electrical, as well as all standard ones pressure ranges and types of outputs common in the industry, to meet the requirements of most applications.

HCPT-32-S has a ceramic measuring cell adapted for for nominal pressures from 0...600 bar, which ensures high level of protection against tearing/overpressure dreaming, so they are extremely resistant to mechanical influences and work completely without material wear and fatigue. The resulting long-term stability is ensured safe operation and reliable measurement results within 100 million measurement cycles.



Measurement range

bar	-1 to 1...0 to 0.1...0 to 600
Kpa	-100 to 100...0 to 10...0 to 60000
psi	-15 to 15...0 to 1.5...0 to 8702
mbar	-1000 to 1000...0 to 100...0 to 600000

These measurement ranges are also available in the following units: Mpa, Pa, in Hg, mm Hg

Materials used

wetted parts	standard	option
case	304 stainless steel	316L/SUS321
sensor	ceramic	-
o-ring	NBR	EPDM/CR/PTFE

HOTCOLD

Ul. Grudzie 2a
05-119 Legionowo
www.hotcold.pl
www.hcsklep.pl

Technical data

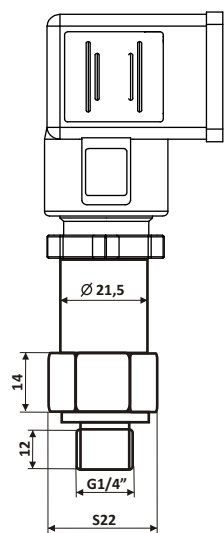
Ambient temperature 25°C

Parameters	HCPG-32 S series
Pressure measured	Relative/Absolute pressure - optional
Overload capacity	Overload capacity 150% of the entire range (Full Span) F.S.
Breaking pressure	Overload capacity 300%F.S.(P<100bar); 200%F.S.(P<400bar); 150%F.S.(P=600bar)
Accuracy	$\leq \pm 0.5\% \text{F.S at } 25^{\circ}\text{C}$
Total error	0...50 °C max. $\leq \pm 0,5\% \text{FS}$; -20...80 °C max. $\leq \pm 1.0 \% \text{FS}$
Stability	0.2%F.S $\pm$ 0.05%/Year
Temp. work	-20...80°C (corrosive agent); -40...125 (non-corrosive agent)
Temp. storage	-40...125°C (nitrile seal); -30...150°C (fluorine rubber gasket)
Compensation temperature	0...50°C
Material	Compatible with stainless steel 304, 316 on request
Electric wire	2 wires; 3 wires
Output	4-20mA 0-5V 0-10V 0.5-4.5V ratio
Supply voltage	7-30Vdc 8-30Vdc 13-30Vdc 5Vdc $\pm$ 5%
Insulation resistance	>100M Ω @50V dc
Zero temperature drift	$\leq 0.02\% \text{FS}/^{\circ}\text{C}/\text{Year}$
Electrical connection	DIN43650-A and C Hirschmann angled connector, IP65) IP67 direct cable connector; M12 connector 4 Pins P67; Packard IP65 connector.
Process connection	1/8"NPT external, 1/4"NPT external 1/4"NPT internal, G1/2" external, G1/4" external/internal, 7/16"-20 UNF external as an option.
EMC standard	EN 61326-1:2013; EN 61326-2-3:2013 EN 61000-6-2:2005; EN61000-6-4:2007+A1
IP protection	IP65...IP67 according to model
Response time	$\leq 20\text{ms}$
Certificates	CE and Rohs certificate

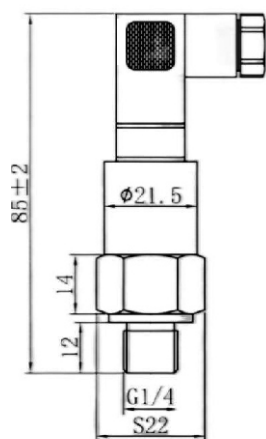
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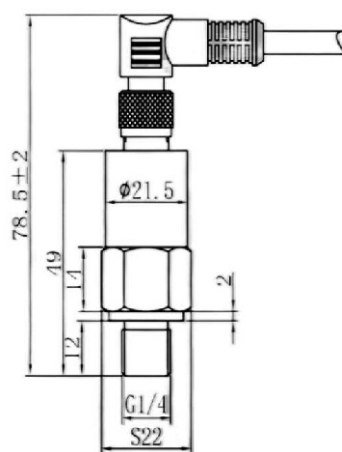
Drawings and dimensions



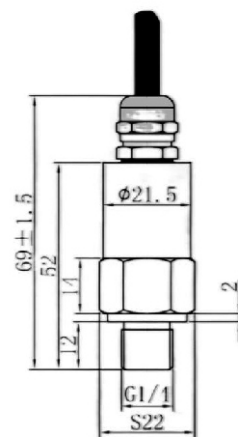
HCPT-32-S3



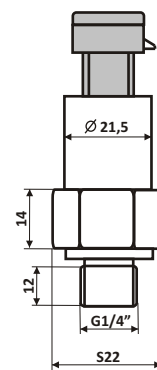
HCPT-32-S5



HCPT-32-S4



HCPT-32-S2



HCPT-32-S1

Electrical connections

DIN 43650-A and DIN 43650-C connector	
	1 VCC+
	2 Si+
	3 NC
	4 shield
voltage 0...10V	1 VCC+
	2 GND
	3 Vout
	4 shield

Packard type connector 3 pins		
	current 4...20mA	A shield / black
		B Vcc+ / red
		C Si+ / green
voltage 0...10V	A	GND / black
	B	Vcc+ / red
	C	Vout / green

M12 connector 4 pins		
	current 4...20mA	1 VCC+ / brown
		2 Si+ / white
		3 NC
		4 shield / black
voltage 0...10V	1	VCC+ / brązowy
	2	Vout / white
	3	GND / blue
	4	shield / black

cable output		
	current 4...20mA	red Vcc+
		green Si+
		black shield
voltage 0...10V	red	Vcc+
	green	Vout
	black	GND

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HCPT-32-x1/x2/x3/x4/x5/x6

x1 (electrical connection) enter: S1 for the Packard 3 pin connector

S2 for cable output

S3 for DIN43650-A Hirschmann connector

S4 for M12 4 pin connector

S5 for DIN43650-C small Hirschmann connector

x2 (transducer range) enter the range -1...600 bar, e.g.: 6 means 0...6 bar

in case of -1..+1 enter +/-1

x3 (output type) enter V for 0...10V, A for 4...20mA, 1/2V for 0...5V, R for 0.5...4.5V

x4 (supply voltage) enter 5VDC, 8...30VDC, 13...30VDC (depends on the output type)

x5 (mechanical connection) enter: standard G1/4", if other, please specify

x6 (cable length) for the cable connection, enter the cable length, e.g. 2 m