

## Characteristics

TYPE	SETTING RANGE	PROOF PRESSURE	BURST PRESSURE
ISP-060/ *- *- CE	0 ÷ 60 bar	2 x rated pressure	400 bar
ISP-100/ *- *- CE	0 ÷ 100 bar		500 bar
ISP-250/ *- *- CE	0 ÷ 250 bar		1000 bar
ISP-350/ *- *- CE	0 ÷ 350 bar		1000 bar
ISP-400/ *- *- CE	0 ÷ 400 bar		1500 bar
ISP-600/ *- *- CE	0 ÷ 600 bar		2000 bar

## Description

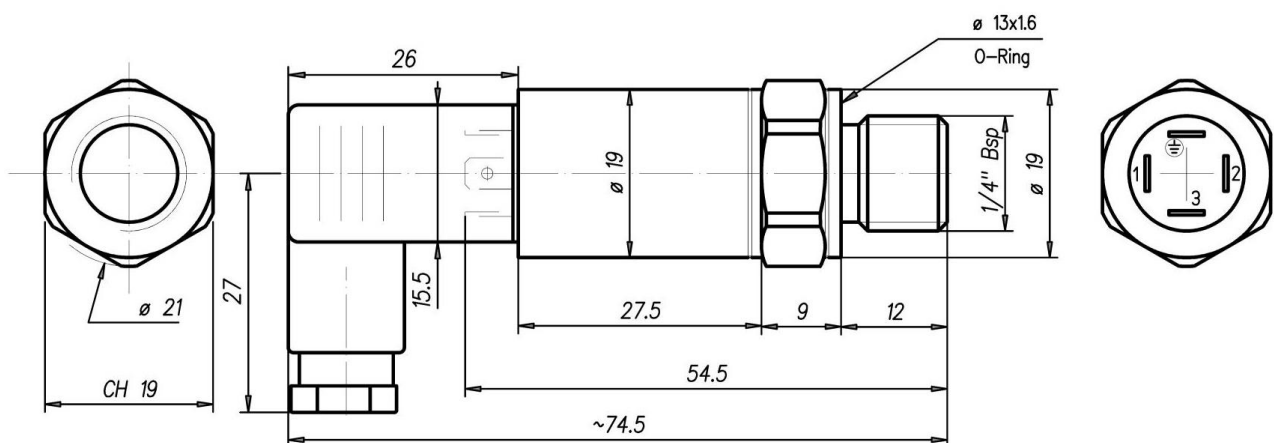
The pressure transducers type ISP give an output signal ( tension or current ) proportional to the incoming hydraulic pressure.

The design and machining of the body from a stainless steel solid piece make these components suitable for mobile and industrial use.

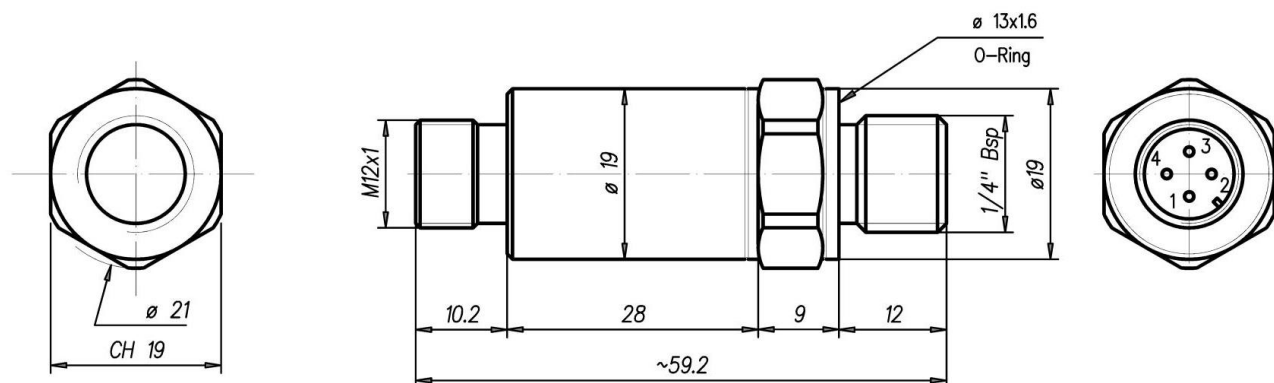
The pressure transducers ISP meet latest CE standards and offer a wide selection of configuration: according to the electric connection, output and hydraulic connection.

## Dimensions

### Hirshman DIN- 43650C (Standard)



### Metric M12x1 4 PIN (On request )



# PRESSURE TRANSDUCERS



## Technical specifications

<b>Sensor</b>	Thin film on steel
<b>Measuring range</b>	0 ÷ 60 to 0 ÷ 600 bar
<b>Output Signal</b>	4 ÷ 20 mA ; 0 ÷ 10 VDC

<b>Operating temperature</b>	-25 + 85°C (standard) -40 + 125°C ( "E" option)
<b>Media temperature</b>	-25 + 85°C (standard) -40 + 125°C ( "E" option)
<b>Protections</b>	IP65; IP67 ( "M" option)
<b>Humidity</b>	Max 95% relative
<b>Vibration</b>	25g (20 ÷ 2000Hz)
<b>Shock</b>	50 g/11ms Sin

<b>Material sensor</b>	1.4542 (AISI 630)
<b>Material Housing</b>	1.4301 (AISI 304)
<b>Material O-Ring (media contacting)</b>	NBR or EPDM
<b>Mounting torque</b>	25 Nm
<b>Weight</b>	~ 50 g.

<b>Emission</b>	EN/IEC 61000-6-3
<b>Immunity</b>	EN/IEC 61000-6-2

<b>Output</b>	4 ÷ 20 mA / <b>Supply voltage</b> 24 (9 ÷ 32 ) VDC
<b>Output</b>	0 ÷ 10 VDC / <b>Supply voltage</b> 24 (15 ÷ 32 ) VDC

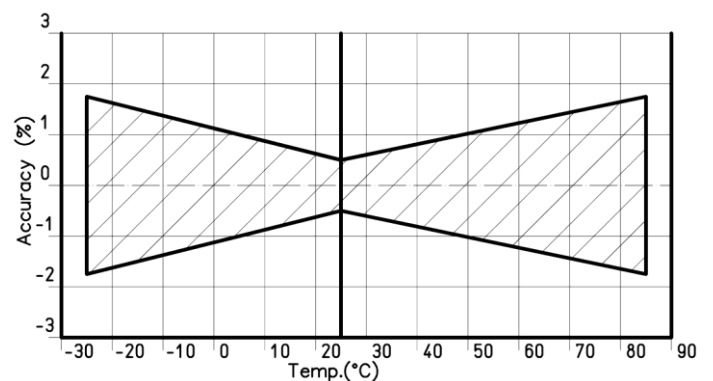
<b>Rise time</b>	typ. 1 ms/10 ÷ 90% nominal pressure
<b>Switch-on delay</b>	100 ms

Output	Load resistance
4 ÷ 20 mA	(U <sub>SUPPLY</sub> - 9V)/20mA
0 ÷ 10 VDC	≥ 5 kΩ

<b>TEB @ -25 + 85°C</b>	± 1.75 [%fs Typ]
<b>Accuracy @ + 25°C</b>	± 0.5 [%fs Typ]
<b>NLH @ + 25°C (BSL through 0)</b>	± 0.2 [%fs Typ]
<b>TC zero point and span</b>	± 0.03 [%fs/K Typ]
<b>Long term stability 1 year @ + 25°C</b>	± 0.2 [%fs Typ]

Electric connection	Hirshman DIN-43650C IP-65	Metric M12x1, 4-pin IP-67
<b>Output signal</b>		
	2 1 ⊕ (4)	1 3 ⊕ (4)
	1 2 3 ⊕ (4)	1 2 3 ⊕ (4)

TEB ( Total error band) output signal



## Ordering code

<b>ISP - *** / * - * - CE - **</b>	<b>H</b> = HNBR
	<b>E</b> = EPDM
	(Omit it ) = FKM
	seals
	CE compliant
	Connector
	<b>D</b> = Hirshmann (standard) DIN-43650C
	<b>M</b> = Metric (on request) M12x1 4 - pin
	Output Signal (Current) <b>I</b> = 4 ÷ 20 mA
	(Tension) <b>V</b> = 0 ÷ 10 VDC
	<b>060</b> = 0 ÷ 60 bar
	<b>100</b> = 0 ÷ 100 bar
	<b>250</b> = 0 ÷ 250 bar
	<b>350</b> = 0 ÷ 350 bar (available only in / V-D-CE version)
	<b>400</b> = 0 ÷ 400 bar
	<b>600</b> = 0 ÷ 600 bar
	Pressure (bar)
	Pressure transducer