

**TEMPERATURE COMPENSATED
PRESSURE SENSOR
PC 30 Model**

◆ Technology : **Thick Film Strain Gage On Ceramic**

4 mV/V Full Scale Output Signal

Operating Temperature - 40 up to + 135°C

Residual temperature effect (Z+S): $\leq \pm 0.03\%$ FS / °C

High reliability level

Just as other sensors from CiTy Sensors range, the PC30 model is based on **Thick Film Strain Gage Ceramic Technology**.

This model is fully temperature compensated so that the residual effect due to temperature variations is within $\pm 0.03\%$ FS / °C.

The ceramic diaphragm, **inert and chemically neutral**, can be in direct contact with all fluids, even very aggressive, without additional separator device.

◆ **Industrial Equipment (OEM) - Transducers Manufacturing**

◆ **Main Applications : Pneumatic, hydraulic, medical, chemical, petrochemical, pharmaceutical, food industry...**

Mechanical specification:

MODEL	Rated Range (bar)	Burst Pressure (bar)	
• PC30 – 1.0	0...1.0	2.0	❖
• PC30 – 1.6	0...1.6	3.2	
• PC30 – 2.5	0...2.5	5.0	
• PC30 – 4.0	0...4.0	8.0	❖
• PC30 – 6	0...6.0	12	
• PC30 – 10	0... 10	16	
• PC30 – 16	0... 16	25	
• PC30 – 25	0... 25	50	
• PC30 – 40	0... 40	80	❖
• PC30 – 60	0... 60	100	
• PC30 – 100	0...100	160	
• PC30 – 160	0...160	320	❖
• PC30 – 250	0...250	500	❖
• PC30 – 400	0...400	600	❖

Combined Error (Linearity + Hysteresis) $\leq \pm 0.4\%$ FS [Terminal based]

Repeatability $\leq \pm 0.1\%$ FS

❖ Pressure Ranges available on special request only. Please consult us.

(*) Except hydrofluoric acid

**30 mm Diameter
0...1 to 0...400 bar
Absolute and Gage Pressure**

**All applications
All aggressive media (★)**



- Scale 1/1 -

RoHS Compliant
Directive 2002/95/EC

Specification subject to change without prior notice

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TEMPERATURE COMPENSATED PRESSURE SENSOR *PC 30 Model*

(Continued)

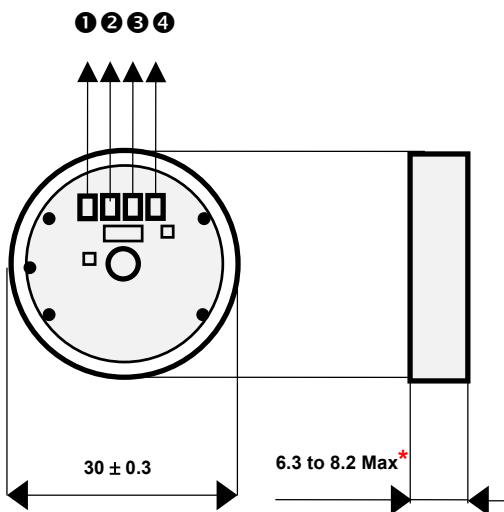
Electrical specification:

- | | |
|---|---|
| <ul style="list-style-type: none"> • Maximum excitation voltage • Full scale Output Signal • Bridge Impedance • Initial zero unbalance • Dielectric strength • Zero point Long Term Stability | <p>30 Vdc (10 Vdc typ.)
 4 mV/V (3 mV/V for 1 bar range) ± 20%
 12 KΩ ± 30%
 ≤ ± 0.2 mV/V
 > 2 KV
 ± 0.2% FSO, typ. (non cumulative versus time)</p> |
|---|---|

Environmental specification:

- | | |
|--|--|
| <ul style="list-style-type: none"> • Material in contact with fluid • Operating Temperature Range • Storage Temperature • Residual Temperature Effect (Zero and Span) • Relative Humidity (Absolute Sensor) • Relative Humidity (Gage/Relative Sensor) • Sensor Weight | <p>Alumina Al₂ O₃ – 96%
 - 40 up to + 135°C
 - 50 up to + 150°C
 ≤ ± 0.03% FS / °C
 0 – 100 %
 0 – 70 %
 < 15 g</p> |
|--|--|

Dimensions (mm):



Electrical Wiring:

- ❶ : + Excitation
- ❷ : - Output
- ❸ : - Excitation
- ❹ : + Output

◆ **OPTIONS :**

- Flat color cable, length 15 cm



- Flat Kapton ribbon 7 cm with Berg connector



◆ **ORDERING CODE: PC 30 - xxx - x**

Range (in bar) _____ ↑

Pressure: _____ ↑

A (Absolute)

R (Relative/Gage)

*** Important Notice:**

- ❑ Refer to **Inst02** (PC30 - Instruction For Use)
- ❑ Additional Info : Consult **Technical Notes**

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