

PRESSURE SENSOR CT 34 Model

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

High Sensitivity

± 1% normalized Output Signal (Option)

Operating temperature range - 25 up to + 125°C

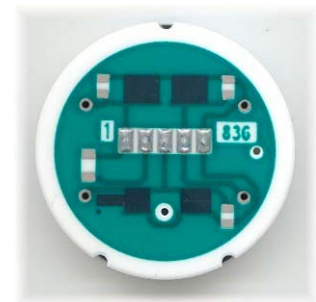
Connector or flat Ribbon Cable upon request

34 mm Diameter
0... 5 & 0...10 bar
Absolute and Gage Pressure

All applications
All aggressive fluids (★)

Just as other sensors from CiTy Sensors range, the CT 34 model is based on the **Thick Film Strain Gage Ceramic Technology**.

It brings the same advantage as other models regarding Elastic Properties and Media Compatibility.
Most of the pressure ranges offer a high sensitivity which allows an easy down ranging. A stable behaviour versus time and temperature characterizes that model as well as a very easy mechanical integration.



- Scale 1:1 -

- ❖ mechanically compatible with other 34 mm pressure sensors
- ❖ upon request, output adjustment (± 1% interchangeability)

◆ Industrial Equipment (OEM) - Transducers Manufacturing

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

Mechanical specification :

MODEL	Rated Range (bar)	Burst Pressure (bar)	Output Signal in mV/V (± 30%)
• CT 34 – 5.0	0....5.0	10	5.0
• CT 34 – 10	0.... 10	20	8.0

Combined Error (Linearity + Hysteresis)
Repeatability

≤ ± 0.4% FSO [Terminal Based]
≤ ± 0.1% FSO

(★) Except hydrofluoric acid

RoHS Compliant
Directive 2002/95/EC

Specification subject to change without prior notice

PRESSURE SENSOR CT 34 Model

(Continued)

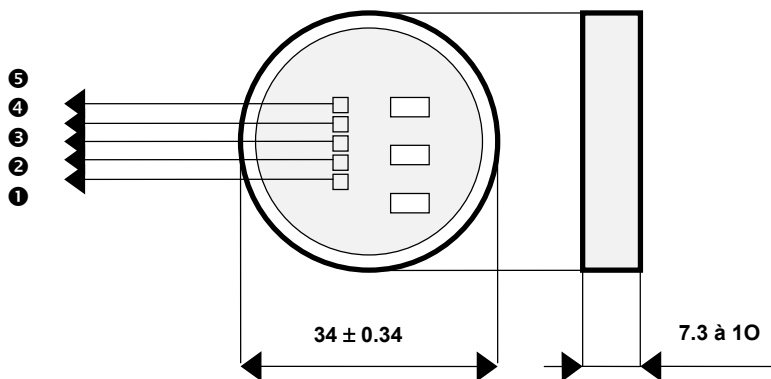
Electrical specification :

<ul style="list-style-type: none"> • Maximum excitation voltage • Input Impedance • Output Impedance • Initial zero unbalance • Dielectric strength • Zero point Long Term Stability 	<p>30 Vdc (10 Vdc typ.) 12 KΩ \pm 30% 12 KΩ \pm 30% $\leq \pm 0.2$ mV/V > 2 KV $\pm 0.2\%$ 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 • Thermal Zero Drift • Thermal Sensitivity Shift • Relative Humidity (Absolute Sensor) • Relative Humidity (Gage/Relative Sensor) • Sensor Weight 	<p>Alumina Al₂ O₃ – 96% - 25 up to + 125°C - 50 up to + 150°C $\leq \pm 3\mu\text{V} / \text{V} / ^\circ\text{C}$ $\leq -0.04\% / ^\circ\text{C}$ 0 – 100 % 0 – 70 % < 25 g</p>
--	--

Dimensions (mm) :



Electrical Wiring :

- ⑤ : + Output
- ④ : - Excitation
- ③ : - Output
- ② : Not to be connected
- ① : + Excitation

◆ **OPTION :**

▫ 7 cm flat kapton ribbon with Berg connector

◆ **ORDERING CODE : CT 34 - xxx - x**

Range (in bar) ↑

Pressure: ↑

A (Absolute)
 R (Relative/Gage)



Specification subject to change without prior notice