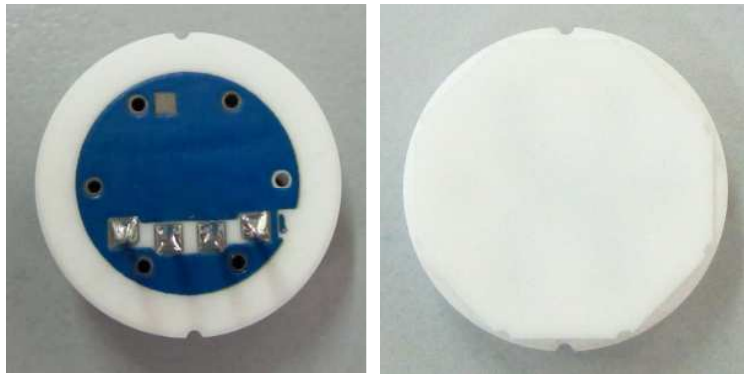


## FLUSH MEMBRANE PRESSURE SENSOR OC18 High Pressure Series

- ◆ Technology : **Thick Film Strain Gage On Ceramic Sealed Gage Pressure**  
**Membrane material: Al<sub>2</sub>O<sub>3</sub> 96% (>99.5% optional)**  
**Operating temperature range - 40 up to + 135°C**  
**High reliability + Excellent long term stability**

### OC18



**18 mm Diameter - 0...100 bar to 0...600 bar**

The OC18 sensors are fully **Temperature Compensated**.  
 The ceramic diaphragm, **inert and chemically neutral**, can be in direct contact with all fluids, even very aggressive, without additional separator device.

#### Mechanical specification:

MODEL	Rated range		Full Scale Output Signal		Overload pressure	Burst pressure
	MPa	Bar	Min mV/V	Max mV/V		
<b>OC18-106</b>	0..10	0..100	3.4	5.2	200	400
<b>OC18-206</b>	0..20	0..200	2.6	4.2	400	800
<b>OC18-406</b>	0..40	0..400	3.4	5.2	800	1000
<b>OC18-606</b>	0..60	0..600	3.4	5.2	900	1000

Other ranges available on request

On board NTC temperature probe available on demand

Combined Error (Linearity + Hysteresis) < ± 0.3% FSO [Terminal based]  
 Repeatability < ± 0.1% FSO

**RoHS Compliant**  
Directive 2002/95/EC

**FLUSH MEMBRANE PRESSURE SENSOR**  
**OC18 High Pressure Series**

(Continued)

**Electrical specification:**

▣ PRESSURE

- Bridge Excitation Voltage 2.5...30 Vdc
- Input & Output Impedance 11 KΩ ± 30%
- Initial zero unbalance ≤ ± 0.2 mV/V (\*)
- Dielectric strength > 2 kV
- Zero point Long Term Drift 1 year @ 25°C < 0.2% FSO
- Zero point High Temp Drift 1000 hrs @ 150°C < 1.0% FSO

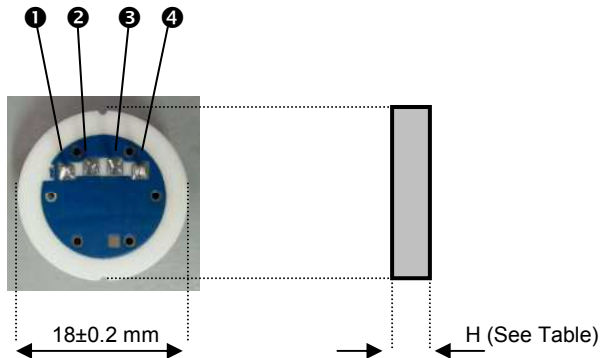
(\*) other values available on request (typ 0.1... 0.3 mV/V)

**Environmental specification:**

- Material in contact with fluid Alumina Al<sub>2</sub>O<sub>3</sub> – 96% (Option 99.5%, MOQ 500 pieces)
- Operating Temperature Range - 40 up to + 135°C
- Storage Temperature - 50 up to + 150°C
- Residual Temperature Effect (Zero and Span) ≤ ± 0.04% FSO / °C
- Humidity range <95%RH (no condensation)

**Dimensions (mm):**

FS	100	200	400	600	Bar
H	6.71±0.15	7.09±0.20	7.35± 0.20	7.60± 0.20	mm



**Electrical Wiring:**

- ① : - Output
- ② : - Excitation
- ③ : + Output
- ④ : + Excitation

◆ ORDERING CODE : **OC18 - xxx - S - x**

Range in Pascal  
2 significant digits + multiplier

S Sealed Gage

**Electrical connection:**

- 0 tinned pads
- 1 male pins h=8.0±0.5mm
- 2 other on request