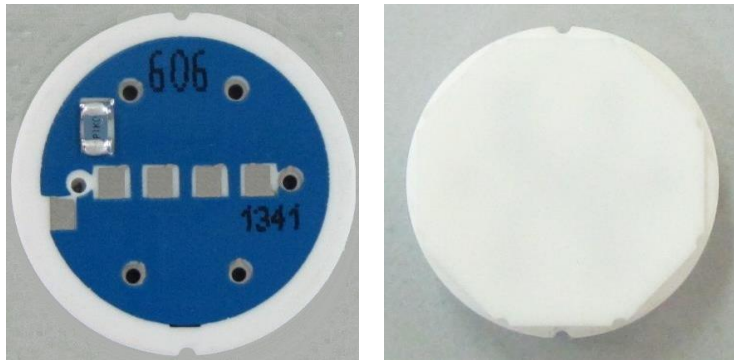


**FLUSH MEMBRANE
DUAL PRESSURE + TEMPERATURE SENSOR
OCS18 or OCST18 High Pressure Series**

- ◆ Technology : **Thick Film Strain Gage On Ceramic + Pt 1000 Platinum Probe**
Dual (P + T) simultaneous measurements (OCST18 Model)
Relative and Absolute Pressure
Membrane material: Al₂O₃ 96% (>99.5% optional)
Operating temperature range - 40 up to + 135°C
High reliability + Excellent long term stability

OCST18



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

The OCS18 sensors are fully **Temperature Compensated**.
 The OCST18 Model features a **Pt 1000 Platinum Probe** which gives an accurate Temperature measurement, allowing a perfect control of the fluid process, whilst the OCS18 performs a single Pressure measurement.
 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		Burst pressure Bar
	MPa	Bar	Min mV/V	Max mV/V	
OC18-106	0..10	0..100	3.8	5.8	250
OC18-206	0..20	0..200	2.8	4.6	600
OC18-406	0..40	0..400	3.8	5.8	700
OC18-606	0..60	0..600	3.9	5.9	800

Other ranges available on request

On board NTC/PT1000 temperature probe available on demand

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

RoHS Compliant
Directive 2002/95/EC

**FLUSH MEMBRANE
DUAL PRESSURE + TEMPERATURE SENSOR
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(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 |

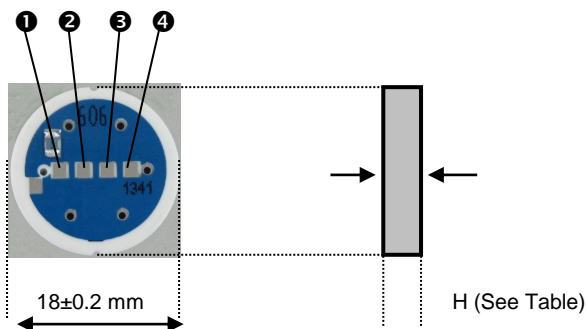
(*) other values available on request (typ 0.1... 0.3 mV/V)

Environmental specification:

- | | |
|---|---|
| • Material in contact with fluid | Alumina Al ₂ O ₃ – 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 : OCS18-OCST18 - xxx - S - x

Range in Pascal
2 significant digits + multiplier

S Sealed Gage

Output connection:

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