KOLEKTOR

FLUSH MEMBRANE
DUAL PRESSURE + TEMPERATURE SENSOR
OCS18 or OCST18 Low 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: Al_2O_3 96% (>99.5% optional)
  Operating temperature range - 40 up to + 135°C
  High reliability + Excellent long term stability

OCST18

18 mm Diameter - 0....2 bar to 0...50 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 Min	Full Scale Output Signal Max	Overload pressure	Burst pressure
	MPa	Bar	mV/V	mV/V	Bar	Bar
OCS18-204	0....0,2	0.....2	2.1	4.3	4	12
OCS18-504	0....0,5	0.....5	2.9	5.7	10	20
OCS18-105	0....1	0....10	3.5	6,9	15	40
OCS18-205	0....2	0....20	2.6	5.2	40	80
OCS18-505	0....5	0....50	2.5	4.9	100	200

Other ranges available on request

On board NTC temperature probe available on demand

Combined Error (Linearity + Hysteresis)	< ± 0.3% FSO [Terminal based] [0...2 bar-to 0...50 bar]
Repeatability	< ± 0.1% FSO

RoHS Compliant
Directive 2002/95/EC

Specification subject to change without prior notice

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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% FSO

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

¤ **TEMPERATURE (OCST18 Model only)**

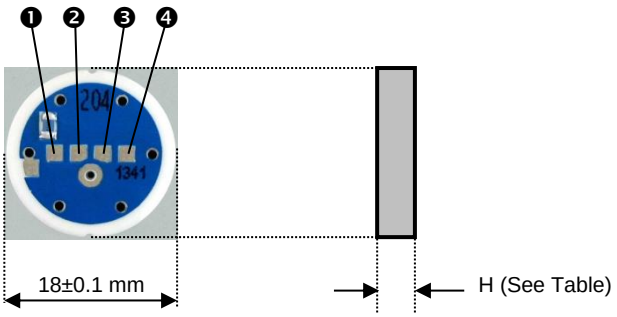
• Pt 1000 Probe	1000 Ω at 0 °C
• Class	B
• Sensitivity Coefficient	+ 3850 ppm / °C
• Norms	Conformity to IEC 751 / EN 60751

Environmental specification:

• Material in contact with fluid	Alumina Al_2O_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 on zero offset	≤ ± 0.02% FSO / °C
• Residual Temperature Effect on span	≤ ± 0.02% FSO / °C
• Humidity range	<95%RH (no condensation)

Dimensions (mm):

FS	2	5	10	20	50	Bar
H	6.26	6.33	6.33	6.46	6.71	mm
	± 0.1				± 0.15	



Electrical Wiring:

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

♦ ORDERING CODE : OCS18/OCST18 - XXX – X – X

Range in Pascal
2 significant digits + multiplier

Output connection:

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

A (Absolute)
R (Relative/Gage)
S (Sealed Gage)

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