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## MODEL : OMP01

### Extremely small SENSOR OF PRESSURE MEMBRANE TRANSDUCER

- Filtering M5 or 10-32 28UNF
- Ranges : 0-1 to 0-350 bar / 5076 psi
- Accuracy  $\pm 0,5$  to  $\pm 0,25$  % standard
- Dynamic applications
- Option Version with electronic (0-5V / 0-10V)
- Probe integrated PT 100 (in option)

\* Available in absolute, gauge or sealed, this flush membrane transducer is available in measurement ranges 0-10 to 0-350 bar .  
 \* Sensitive element equipped with strain gages in Silicon in a 1/2 Wheatstone bridge type configuration. Both the membrane and body are available in either stainless steel or titanium .  
 \* Temperature range of use from - 40 to 150 °C on standard.  
 \* Can receive an amplifying electronics of signal (in option).  
 \* By construction, the OMP01 is particularly adapted to meet needs for dynamic measurement preserving in this last case of the unchanged characteristics for frequencies of use up to 20% of the frequency of resonance.

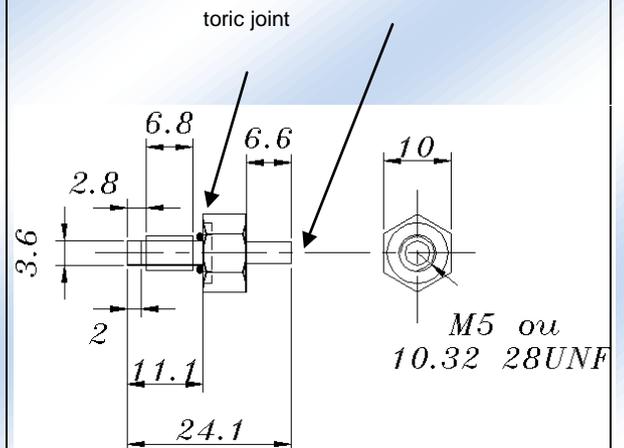


#### MECHANICAL SPECIFICATIONS

- Connection pressure 5, joined sealing (toric) provided according to nature of the fluid.
- Weight of the sensor: 5g (except cable)
- \*\* Dimensions in mm:

Exit by cable Teflon  
 4 drivers armoured length 1 measures

Exit cables diam: 5 maximum



NOTE: The manufacturer reserves the right to change without notice the specifications indicated. OCTOBER 1995/VD

#### ELECTRICAL SPECIFICATIONS

- \*\*Supply: 10 VCC nominal, 12 VCC max (on standard)
- \*\*Offset:  $\leq \pm 5$  % EM.
- \*\*Input impedance: 1500 ohms nominal
- \*\*Output impedance: 500 ohms nominal
- \*\*Electrical output: Teflon cable, 4 wire shielded

#### THERMIC SPECIFICATIONS

- \*\*Temperature of use : -40 to 150 °C ( without electronics )
- \*\*Compensated temperature range: 0 to 60°C
- \*\*Zero drift in compensated range :  $\leq 1$  % EM.
- \*\*Sensitivity drift in compensated range :  $\leq 5.E-3\%$  / °C

#### OPTIONS

- \*\* Electronic amplifier integrated into sensor
- MT: Supply 10 to 32 Volts not controlled, signal 10 V
- BT: Supply  $\pm 15$  Volts controlled, signal 10 V
- \*\* Other thermic specifications on request

Ranges ( bar )	1/5(Titane)	10/20	50	100	200	350
Overrange ( bar )	5/10	20/40	75	150	300	500
Accuracy (% of the E.M )	$\pm 1\%$			$\pm 0.25\%$		
Resonance Frequency ( kHz )	30	50	70	110	150	190
Sensitivity ( mV/EM) nominal	5mV/V			1.5		
Option with electronic integrated	5 VCC			5 VCC		

#### CODE ORDER

Reference	Pressure	Option temperature	Option Ampli	Option filtering	Option probe	Option cable
OMP01	0-350 bar	C°	MT/BT	M5 10.32/28UNF	PT100	3m

Exemple : OMP01-200-350bar-MT-M5-PT100-3m

## OMICRON SENSORS ENVIRONNEMENT

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