



<http://www.omicron-sensors.org>

<mailto:contact@omicron-sensors.org>

## MODEL : OMP02

### M10 or 3/8.24UNF FLUSH MEMBRANE TRANSDUCER

- \* **Filtering M10 or 3/8.24UNF**
- \* **Ranges : 0-10 to 0-350 bar 5076 psi**
- \* **Accuracy :  $\pm 0,5$  to  $\pm 0,25$  % standard ( $\pm 0,15$  or  $\pm 0,1$  % in option)**
- \* **Static and dynamic applications**
- \* **Option : Electronic version 5V /10Vcc**
- \* **Probe integrated PT 100 (in option)**
- \* Available in absolute , gauge or sealed , this flush membrane transducer comes in measurement ranges 0-10 to 0-350 bar .
- \* The sensing element is equipped with strain gages in a Wheatstone bridge type configuration .Both the membrane and body are available in either stainless steel or titanium .
- \* Operating temperature range from - 40 to 150 °C on standard , can be from - 60 to 200°C as an option .
- \* Signal amplifying electronics are available as an option .
- \* By construction, the OMP02 is particularly adapted the transducer useful for both static and dynamic measurement . In dynamic measurement the characteristics of the OMP02 remain unchanged for frequencies up to 20 % of the resonant frequency

#### ELECTRICAL SPECIFICATIONS

- \*\*Supply : 10 VCC nominal , 12 VCC max (on standard)
- \*\*Offset :  $\leq \pm 5$  % F.S.
- \*\*Input/Output impedance : 1000 ohms nominal
- \*\*Electrical output : 4 wire shielded teflon cable

#### THERMAL SPECIFICATIONS

- \*\*Operating temperature range : -40 to 200 °C (without electronics)
- \*\*Compensated temperature range (CTR) : -20 to 120°C
- \*\*Zero drift in CTR :  $\leq 0.5$  % F.S.
- \*\*Sensitivity drift in CTR :  $\leq 3.E-4 / ^\circ\text{C}$

#### OPTIONS

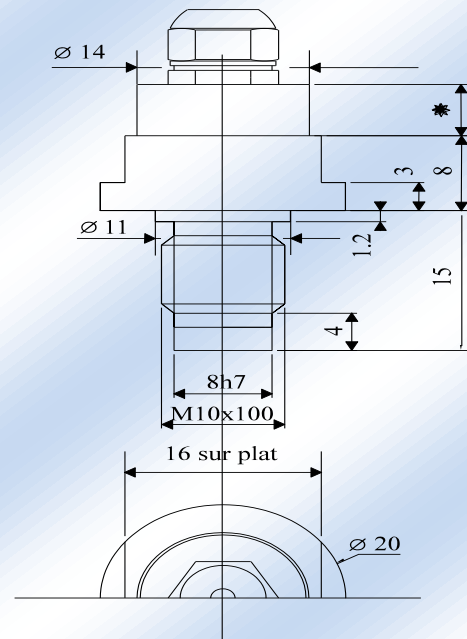
- \*\*Accuracy of  $\pm 0.15\%$  ( $\pm 0.1\%$  for F.S. > 20 bar)
- \*\*Amplifying electronics integral to the transducer . (for supply , contact us )
- \*\*Other thermal specifications ( contact us )



#### MECHANICAL SPECIFICATIONS

- \*\*Pressure connection : M 10 X100 , sealing ring supplied ( BS ring depends on the nature of the fluide ) .
- \*\*Dimensions as in attached drawing ( mm ) :

Electrical output  
4 wire shielded Teflon  
cable : length 1 meter



\* 0.5 without électronics

\* 5.5 with électronics

NOTE : Specifications subject to change without notice . OCTOBER 1995/VD

<b>Ranges ( bar )</b>	10	20	50	100	200	350
Overrange (bar)	20	30	75	150	300	500
Accuracy (% of E.M )	$\pm 0.5\%$			$\pm 0.25\%$		
Resonance Frequency (kHz)	30	50	70	110	150	190
Sensitivity ( mV/V/EM. )nominal	10			10		
Option with electronic integrated	5 VCC			5 VCC		

#### CODE ORDER

Reference	Option temperature	Pressure	Option Amplifier	Option
OMP02	HT	0-350	MT/BT/C	M10 or 3/8.24UNF

Exemple : OMP02-200°C-350 bar-MT-M10-PT100-3m

**OMICRON SENSORS ENVIRONNEMENT**

AP62.03001 (ALICANTE)

Tel/FAX 0034685755956

Site Internet : [www.omicron-sensors.org](http://www.omicron-sensors.org) .Email : <mailto:contact@omicron-sensors.org>