

# Variohm EPTTE3100 Temperature and Pressure Sensor (10Bar/PT1000)



**Brand:** Variohm

**Product Code:**

VAREPTTE3100C01000B5A

**Availability:** 7 Days

**Weight:** 0.08kg

**Dimensions:** 10.00cm x 5.00cm x 5.00cm

**Price: \$697.50**

## Short Description

The EPTTE3100 is a high quality all stainless steel combined pressure and temperature transducer, intended for use in the measurement of gases and liquids compatible with stainless steel.

## Description

The EPTTE3100 offers the combination of the well proven EPT3100 motor sport pressure transducer with the latest integrated temperature measurement technology and features an exposed temperature sensor for quick response time measurements.

With additional EMI / RFI protection, low static and thermal errors and high resistance to shock and vibration as standard, the EPTTE3100 assures troublefree operation at temperatures up to 125°C.

The EPTTE3100 piezo-resistive sensing element coupled with the latest ASIC circuitry, assures excellent accuracy, choice of high level outputs and long stability, protected within a rugged, stainless steel housing.

The EPTTE3100 high strength stainless steel construction contains no silicone oil and provides therefore excellent reliability which is backed by a one-year warranty

## Specifications

### Performance

Accuracy	+/- 0.5% at RT
Non linearity	<0.15% FS
Repeatability	<0.1% FS
Stability (1 Year)	< ± 0.1 %
Temp.coefficient offset	<0.15 % FS / 10K
Temp.coefficient span	<0,15 %FS / 10K
Overrange pressure	up to 4x rated pressure
Burst pressure	up to 6x rated pressure
Pressure cycles	> 10 million
Pressure response time:	<1ms
Temperature range	-50 to +150° C
Accuracy	PT1000 class B
Temperature response time:	<10s

### Environment

Temperature	-40° to 125° C
Shock	1000 G, 11 msec., 1/2 Sine
Vibration	25 G peak, 20 to 2000 Hz
Sealing	IP 67

## Electronics

Excitation for output pressure:

4 = 10-32  
VDC for 0.5 –  
4.5 V Output5  
= 5 VDC for  
0.5 – 4.5 V  
Output  
PT1000  
< 10 mA  
Yes

Output temperature

Current consumption

Reverse voltage protection

## Mechanical

Housing

304 stainless  
steel

Wetted parts

17-4PH  
stainless steel,  
FVMQ70

Pressure port

see select  
table

Electrical connection

see select  
table

Weight

ca.60g

### Electrical Connection

red:	+ Supply
black:	- Supply
white:	Output Pressure
green:	Output Temperature
blue:	Output Temperature

\* Color coding may vary, it will appear correctly on the sensor label

## Dimensions

