

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

