

## PIEZORESISTIVE PRESSURE TRANSMITTERS

## SERIES 22 DT

### FOR AUTOMOTIVE AND INDUSTRIAL APPLICATIONS

Series 22 DT was developed and homologated specially for use in so-called "bivalent" vehicles fitted with engines for combined natural gas/gasoline operation. The unconventional design with a small mass swept by the flow results in a fast response with temperature changes, the temperature being measured by an NTC or PT sensor located directly behind the stainless steel separating diaphragm. The same diaphragm transmits pressure via a capillary to a stress-free mounted silicon measuring cell.

The signal processing for pressure and temperature is carried out by an electronic module connected to the sensors by flexible conductors. Mounted to the back of the electronic module, which is directly connected to the 6-pole plug connector are the EMC protection components. A special feature is the immunity from interference from electromagnetic fields up to 200 V/m.



#### SPECIFICATIONS

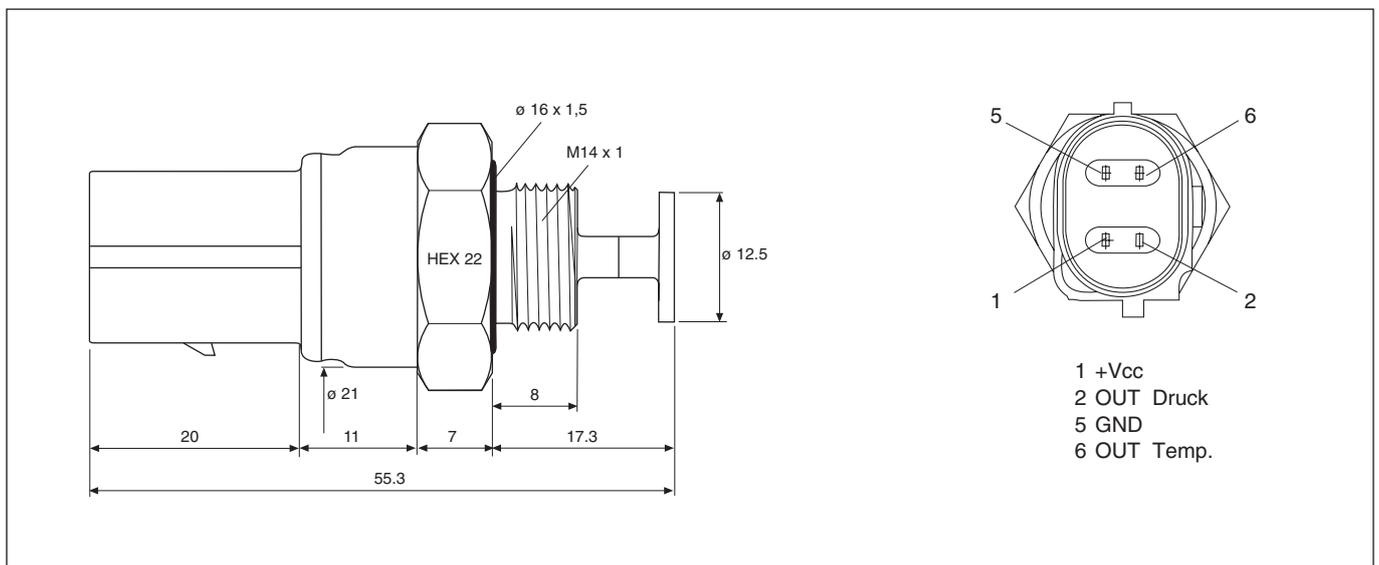
Pressure Range PA-22 DT      14 bar    Sealed Gauge. Zero at atmospheric pressure (at calibration day)  
Overpressure                    25 bar

Supply                              5 V ± 0,25 V  
Output                              0,5 V...4,5V ratiometric  
Temperature Range            -40...140 °C

Accuracy (compensated range) ± 4 %FS (-40...0 °C)  
    ± 2 %FS (0...90 °C)  
    ± 4 %FS (90...125 °C)

Isolation @ 45 V                10 MΩ  
Pressure Connection        M14 x 1  
Vibration                        250 Hz @ 35 g    2000 Hz @ 15 g, X/Y/Z-axis  
EMV-Protection                EN 61000-6-1 to -6-4  
Material in Contact with Media Stainless Steel 316L (DIN 1.4435), Fluorosilicone (FVMQ)  
Plug                                Tyco AMP (6 pole) C-284716  
Temperature Output         NTC, 5 kΩ at 25 °C  
Protection                      IP67  
Weight                            36 g

Options                            Other pressure ranges and materials on request



Subject to alterations

06/05