

$$p = F/A$$



## Pressure Sensors

As a partner of the automotive industry, we have performed many difficult pressure sensor requirements for automobile manufacturing, research and development, component testing, production test stands and onboard vehicle testing. In challenging automotive applications, our pressure measurement systems meet – and exceed – the highest expectations. With proven reliability, superior accuracy and a low cost-of-ownership they provide unsurpassed total performance. Indeed our devices routinely perform under conditions that most pressure sensors wouldn't even dare to attempt.

### On Vehicle Test



- small housing
- robust design
- wide temperature range
- high frequency

### Test Bench



- high accuracy
- good long term stability
- flexibility of output signals

	On Vehicle Test	Test Bench	Racetrak
Sensor type	e.g. PHE119x / PHE222x / PHE212x / PHT222x	e.g. PST127x / PST222x / PGP630x / PGP222x	e.g. PHT222x / PCM225x / PHE212x
Pressure reference type	gauge, absolute and differential	gauge, absolute and differential	gauge and absolute
Pressure ranges	1mbar to 1000bar	0,1mbar to 4000bar	1bar to 1000bar
Nonlinearity & Hysteresis	< ± 0,1%	< ± 0,05%	< ± 0,25%
Output signals	mV, V, digital	mV, V, mA, digital	mV, V
Response time	typ. 1 kHz	typ. 1 kHz	typ. 1 kHz
Operating temperature	(-55°C)-40 to +180°C	(-55°C)-40 to +180°C	-20 to +260°C
Housing diameter	Ø12 to 22mm	Ø19 to 30mm	Ø12 to 19mm

**On Vehicle Test**

**Test Bench**

**Racetrak**

**Pressure Sensors**