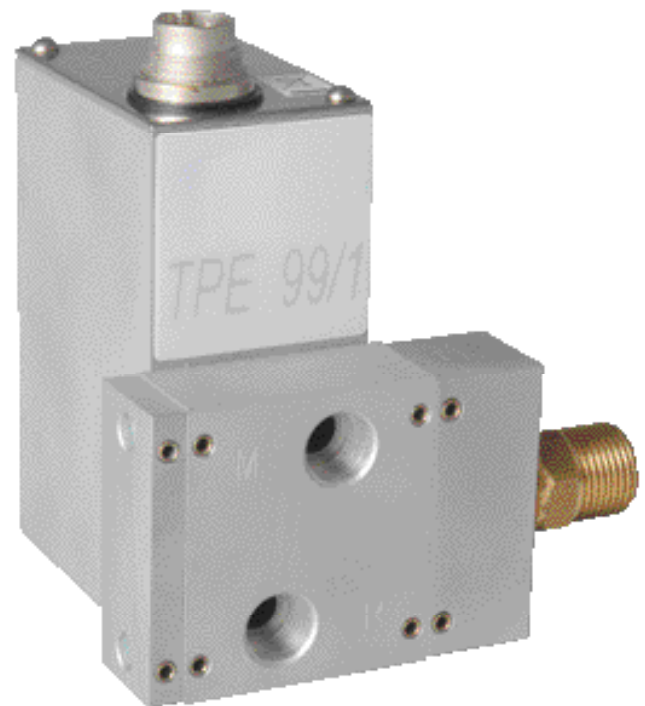




## HOMMEL-ETAMIC TPE99 Air to electronic converter

- Associated with air tooling, the TPE99 is capable of performing extremely high precision dimensional measurements
- In-process measurement of workpieces thanks to its unique functioning principle (protected through two international patents)
- Static, differential or dynamic measurements
- Modular design: mounted directly to the air tooling or in banks
- Fast response time down to 50 ms
- Air pressure regulator allowing to:
  - work between 2.5 and 3.5 bar
  - work without precision pressure regulator
  - forbid using of results if air pressure is too sufficient



Precision is our business.

## Pneumatic measurement

Associated with air tooling, the TPE99 offers the following advantages:

- Non-contact measurement
- High sensitivity (accuracy up to 0.1  $\mu\text{m}$ )
- Durable and reliable air toolings
- Automatic cleaning of measured surfaces
- Measurement in harsh workshop conditions
- Recommended for in-process gaging on Grinding, Super finishing, Honing, Milling, Turning and Transfer machines
- Simultaneous measurement of multiple features of a part
- Static and/or dynamic measurement of geometric tolerances such as straightness, flatness, circularity, cylindricity, profile, angularity, squareness, parallelism, position, concentricity, symmetry, runout...



Air tooling

## Technical characteristics TPE99

Air feed port	1/4" BSP female
Measuring range	From $\pm 5$ to $\pm 120 \mu\text{m}$
Accuracy	Up to 0.5 % of the measuring range
Protection	IP65
Electrical communication/Output signal	From 4 to 20 mA
Operating temperature	From $+5^\circ\text{C}$ to $+50^\circ\text{C}$
Electrical supply voltage	15V to 24V AC

## Instrumentation

The TPE99 can be utilized with any of the following amplifiers and computers:

- ES400
- ES600
- CMZ200
- CMZ250
- ESZ400
- ESZ800



Measuring head cylinder bore