



# HOMMEL-ETAMIC pneumatic

Programmable microprocessor based display unit for 1-5 pneumatic gages

- Used with a pneumatic gage, the pneumatic performs extremely high precision dimensional measurements
- Easy to operate, even by untrained users, no adjustment necessary
- The pneumatic is based on the principle of pneumatic measurement and therefore offers the following advantages:
  - Non-contact measurement, high sensitivity
  - High accuracy 0.1  $\mu\text{m}$
  - Durability and reliability
  - Automatic cleaning of measured surfaces
  - Measurement in harsh workshop conditions
  - Static or dynamic measurements
  - Easy to set-up and use
  - Stacking possibility for up to 8 PNEUTAMIC gages
  - Data exchange via RS232 interface
- 5 measuring programs



### Functionalities pneumatic

#### Display

- Actual dimension or difference from a floating zero
- Metric or inch
- Color display work piece OK/NOK

#### Measurement

- Simple or differential
- Direct reading
- Dynamic gaging with „hold“ feature: Max., Min.m T.I.R., (Max.+Min.)/2
- Adjustable tolerance lines
- Compensation for surface finish

#### Mastering

- With one master: zero adjustment within part specification limits
- With one set of min-max masters: automatic adjustment of amplification coefficient

### Technical characteristics pneumatic

The module aspect of the pneumatic simplifies the connection and data exchange between units and/or external network.

Air feed port	1/4" BSP female
Measurement range	From $\pm 5$ to $\pm 120 \mu\text{m}$
Accuracy	0.5% of the measurement range
Digital display	8 digits, retro-illuminated
Protection	IP65
Operating temperature	From $+5^\circ\text{C}$ to $+50^\circ\text{C}$
Air pressure (filtered air $5 \mu\text{m}$ )	Between 2 and 4 bar (insensitive to variations, even during the measurement cycle)
Electric power supply	220/110V AC
Stacking	8 units using one single power supply
Interface	RS232
Measuring programs	5

