



HOMMEL-MOVOMATIC ES400

Multifunctional measurement and control system



Precision is our business.

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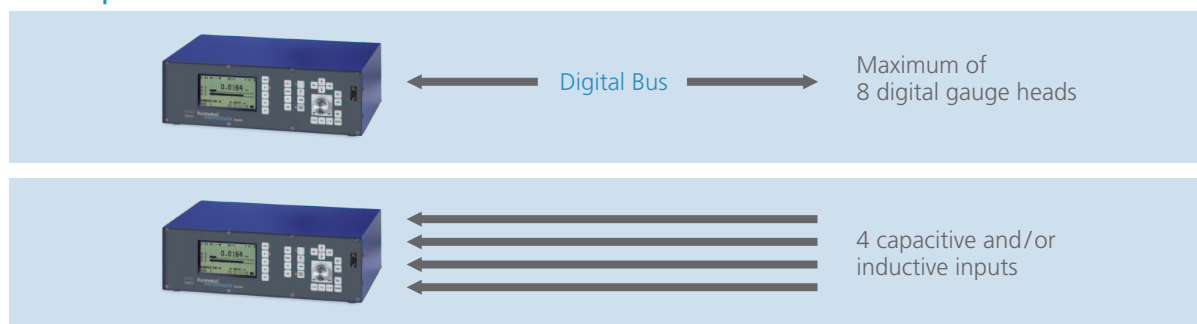
Description

- The range of measuring units of the ES400 series, is composed of a control unit and a front panel unit.
- The control unit may be integrated directly within the machine control cabinet, or within an intermediate 19" rack.
- The front panel unit may be used as a remote panel, or be part of a 19" rack with the control unit.

Functions

- Supports the full range of Hommel-Movomatic digital gauge heads, capacitive or inductive sensors (L.V.D.T), and TPE99 air to electronic transducer (4 to 20 mA or ± 10 VDC).
- For pre-process, in-process, post-process or match grinding applications.
- For measuring outer, inner diameters, and lengths with plain or interrupted surface.
- Delivered with standard or customized software.

Sensor inputs



Technical characteristics

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| Power supply voltage range | <ul style="list-style-type: none"> • 85 VAC to 255 VAC, 50 Hz to 60 Hz or 24 VDC |
| Sensor inputs for Hommel-Movomatic gauge heads | <ul style="list-style-type: none"> • Number: 4 inductive and/or capacitive or 8 digital • Measuring ranges: $\pm 200 \mu\text{m}$ to $\pm 2000 \mu\text{m}$ (capacitive/ inductive) $\pm 250 \mu\text{m}$ to $\pm 2000 \mu\text{m}$ (digital) • Resolution: $0.025 \mu\text{m}$ to $1 \mu\text{m}$ |
| DC inputs (Option) | <ul style="list-style-type: none"> • Number: 4 • Type: 4 to 20 mA or ± 10 VDC |
| Input/output for commutation head (C25) | <ul style="list-style-type: none"> • Type: Make Contact (NO or NC) • Switch on voltage: ± 50 VDC (peak) • Switch on current: < 40 mA • Delay at switching on: $< 10 \mu\text{s}$ |
| Command inputs | <ul style="list-style-type: none"> • Number: 32 • Type: 24 VDC, 10 mA (Optocoupler) Common 0 VDC |
| Command outputs | <ul style="list-style-type: none"> • Number: 26 (from which 16 are usable for BCD outputs) • Type: 24 VDC, 100 mA (Optocoupler) Common 24 VDC |
| Analog outputs (Option) | <ul style="list-style-type: none"> • Number: 2 • Voltage range: ± 10 VDC • Resolution: 5 mV |
| Serial Interface | <ul style="list-style-type: none"> • RS232, Connector SUB-D-9, configurable formats |