

MicroComp

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- ◆ **High gauging resolution** to 0.1 micron.
- ◆ **High-accuracy LVDT** probe amplification.
- ◆ **User friendly, menu-driven LCD graphic display**, and

The leading technology for real-time temperature compensation...
..... all at a remarkably low price.

A unique measurement system in a small, durable package – the best value for money in a gauging system anywhere.

Three operating modes in one controller:

- ◆ Gage amplifier and display.
- ◆ Temperature compensated gauging system with display.
- ◆ Temperature compensation system for a host gage. (Outputs correction signal).

The most economical, user friendly and accurate shop floor gage amplifier available.

User friendly: Simple, on-screen menus allow easy set up, part change-over, data transmission, zeroing, TIR function selection and more.

Economical: Powerful microprocessor, LCD and sensor technologies are combined in MicroComp at the most affordable electronic gauging pricing available on today's market.

Accurate: Using high quality LVDT technology combined with Albion's proven technology, MicroComp can automatically correct for the largest single cause of gauging error – temperature.

Visit www.AlbionDevices.com/MicroComp for more information and downloadable demonstration.



User friendly setup screens make MicroComp simple to operate

Features:

Standard gauging mode:

- Small, compact size/footprint (115mm x 102mm x 64mm)
- 3 "Soft keys," function-designated for each screen. (Used for operations such as zeroing, menu call up and transmission of SPC data.)
- 4 "Hard keys" (permanently labeled) for cursor movement in menu item selection and digital and alpha entry.

In "temp comp" mode:

- Pre-defined Coefficients of Expansion (COEs) for common materials, (includes "custom COE" option).
- "Mechanical Uncertainty" fields to accommodate geometries and conditions not conforming strictly to textbook COEs.
- Separate temperature display for each element of the measurement system (master, workpiece and gage fixture).
- Compatible with all Albion industrial temperature sensors.



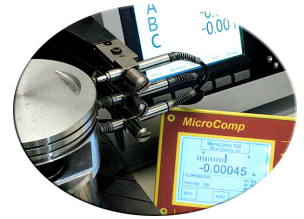
MicroComp is the ideal bearing gaging system, holding tolerances to +/- 1 micron



MicroComp helps air gaging systems hold tolerances



MicroComp can be an important component of your bore gaging system



MicroComp can be integrated with other gaging systems to provide temperature compensation

Specifications:

- 320 x 240 pixel graphic LCD
- 2 LVDT inputs (one dimension displayed: A, B or A+B)
- RS232 port
- Resolution: 0.1 micron (0.0001mm)
- Foot switch port
- 512kByte Flash
- 128kByte battery-backup SRAM
- Power input: 115/60Hz to provided wall transformer
- 2 temperature sensor inputs
- Optional single channel 12-bit DAC output (on enhanced model)
- Dimensions: (115mm x 102mm x 64mm)

Comparison of sub-micron resolution bench top gaging systems

	MicroComp	Typical gaging amplifier (e.g. Mahr Federal, Brown & Sharpe, Fowler)	Typical full-function gaging column (e.g. Marposs, Edmunds, Air Gage Co.)
User friendly, LCD menu driven	Yes	No	No
LVDT connection options (not limited to manufacturer's transducer only)	Yes	No	No
3 year warranty	Yes	No	No
Multiple feature setup storage	Yes	No	No
Rent-to-own plan	Yes	No	No
Built-in temperature compensation software	Yes	No	No
RS232 input	Yes	No	No
RS232 output	Yes	Yes	No
TIR function	Yes	Yes	No
Single master or min/max masters	Yes	Yes	Yes
Inch/mm option	Yes	Yes	Yes
Comparative & absolute modes	Yes	Yes	Yes
A+B & A-B functions	Yes	Yes	Yes



MicroComp with LVDT and temperature sensors, configured for use as a temperature compensated gaging system

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