MICRO Ili Air Gage Readout

Advanced features . . .

- Ruggedized Microcontroller
- Operates all types of air gage members and LVDT sensors
- Out-of-tolerance conditions flagged red
- CE Compliant

- Backlit LCD display
- Auto calibration using one or two setting masters
- · Wrap-a-round bargraph
- RS-232 & USB Serial Data Ports



Applications . . .

- Precise measurement of Internal & External Diameters
- Match fitting mating components
- I.D. straightness measurement
- Inspection of Internal & External Tapers
- Flatness inspection
- Custom multi-feature fixtures

Micro Ili Features . . .

Single or Dual master operation

Readouts for single master operation are calibrated using master standards prior to shipment; the only adjustment required before gaging parts is that the user "zeroes" the Readout with a nominal setting master. Dual mastered Readouts are calibrated by the operator using minimum and maximum setting masters. Western's series 60, 70 and 80 air gage members are designed specifically for single setting master operation, while series 10 air gage members are for use with dual mastered Readouts.

Auto-Zero (single master operation)

The <u>MICRO II</u> i A uto-Zero feature makes set-up a snap. The user enters the nominal master size once during set-up. Subsequently, the Readout is zeroed by placing the setting master on the air gage member, then pressing the center key on the front panel.

Auto-Span (dual master operation)

The <u>MICRO II</u> i A uto-Span feature facilitates calibration using two setting masters. After entering master sizes during set-up, the user calibrates the Readout by sequentially placing the masters on the air gage member, then pressing the center key.

Digital display

A seven digit backlit LCD type display shows the actual part size. Master size and Hi / Lo limits are entered with front panel keys. Out-of-tolerance conditions are flagged by changing the display color from green to red (see example on opposite page). Digital resolutions down to 2 μ -inches or .05 micron are available for close tolerance applications.

Bargraph display -- range selection

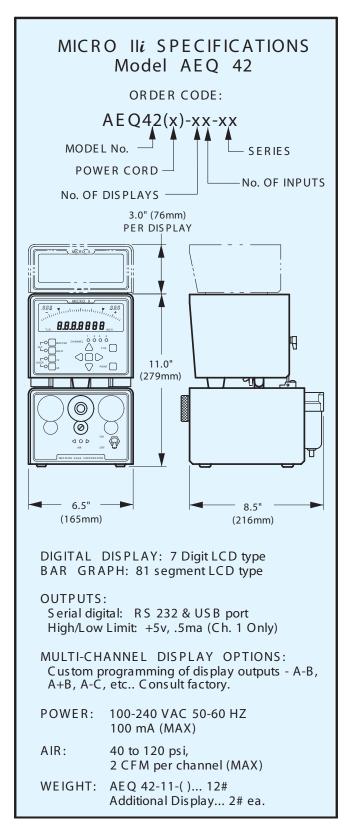
In addition to the digital display, an 81-segment bargraph is incorporated into the <u>MICRO II</u> i. Using the values inputted for size limits, the span between tolerance markers is automatically set. An expanded range mode, Gage 2X, is also available for viewing oversize workpieces.

Serial digital output

Standard to all Readouts are the RS-232 and USB serial data ports, providing convenient interface with Western's printer and most computers and S.P.C. software.

TIR function

Press the "TIR" button and the "Total Indicator Recording" mode is started. The *MICRO II i* begins storing the minimum and maximum gage readings. Press the button again and min-max difference (TIR) is displayed. Feature is standard on single channel units only.



MICRO IIi Multi-Channel Applications

Configured with dual inputs, the *MICRO Ili* is the ideal instrument for match fitting components such as hydraulic valve spools to sleeves, fuel injector plungers to cylinders, and air bearing sleeves to shafts. Connected to a set of Western's air probes



MICRO IIi Model AEQ 42-32N-60

Configured with three input channels and connected to a Western Gage custom air taper gage, the *MICRO Ili* is unsurpassed for fast and reliable inspection of internal and external tapers. The display shows front, middle and back deviations from true taper in products such as machine tools, medical implants, flywheel and pulley parts.





Rapid inspection of parts is facilitated by displaying "out-of-tolerance" conditions in red. Using a highly visible bargraph display, the *Micro Ili* shows the position of each feature relative to its product specification.







MICRO IIi

Other quality products from Western Gage:

- · Air to Electric Converter
- Air probes & air rings for all major makes of air gage readouts
- Setting masters and part-like master gages
- · Air gage accessories
- Custom gaging fixtures
- LVDT sensor inputs
- Temperature compensation



Western Gage Corporation has been providing quality precision solutions for industry needs since 1968. View online or Call, FAX, or e-mail us for your copy of Western Gage's Dimensional Air Gage Buyer's Guide.

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