

# **MilliCheck Comparator Instruments**

Advanced LCD design replaces mechanical air gage readouts

Low cost design features . . .

High resolution dial type analog display

Four decade digital display

User selectable scale ranges

Design for shop floor environment

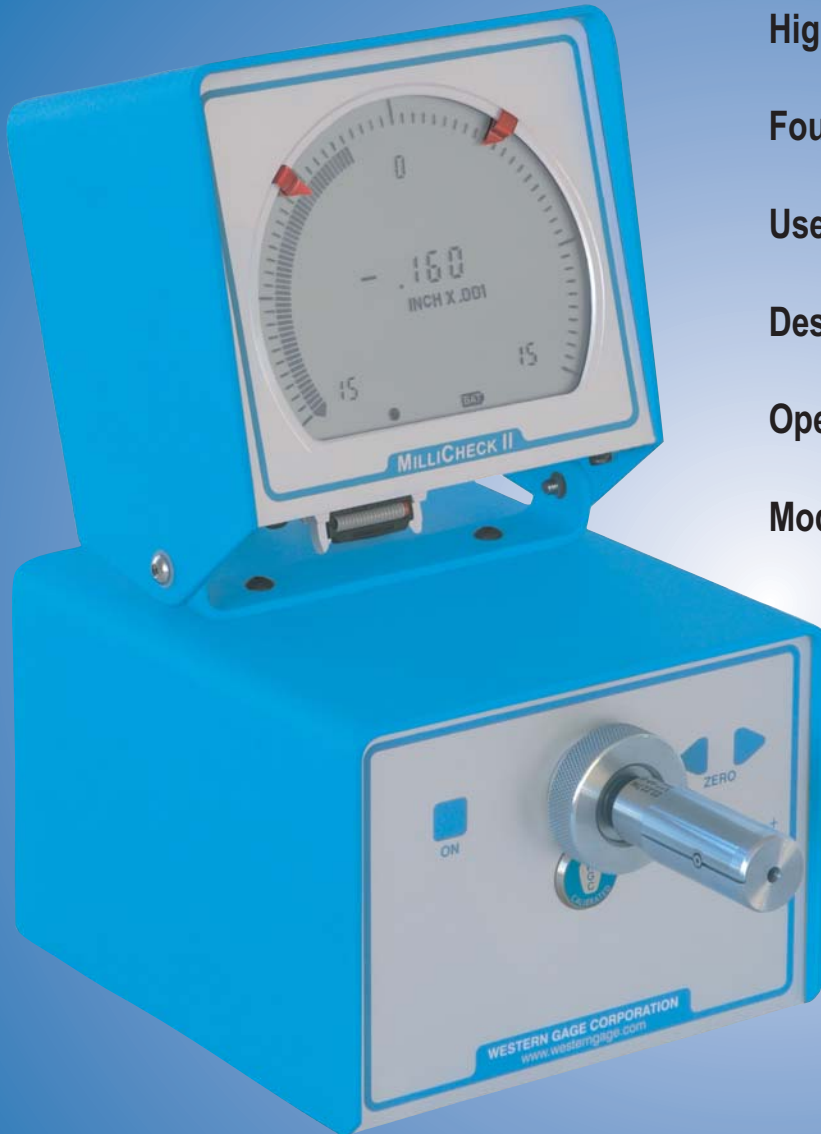
Operates on batteries or external power

Models for:

Single master type air gages

Dual master type air gages

LVDT gaging cartridges



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# MilliCheck Comparator Instruments . . .



AEC-30-10 with dual master type air probes

**MilliCheck Comparator Instruments** replace dial type pneumatic comparator instruments. These next generation instruments feature high resolution, circular LCD bargraphs, along with four decade digital displays. They include user selectable scale ranges in English or Metric units, tolerance zone markers, and Hi / Lo air pressure annicators. -- *specifications on the next page.*

## Battery or external power . . .

**MilliCheck** instruments can be operated from internal batteries, or directly from external AC power sources. Utilizing the instruments 4 standard "D" cells, the user can expect a nominal battery life of 3 to 4 months, based on a standard 8-hour workday, 5 days per week. Operation with 120 or 250 AC power sources use a plug-in adapters furnished with the instrument.

## Designed for the shop floor use . . .

Rugged, .125" thick aluminum housing with membrane sealed front panels provides for reliable performance in machine shops as well as metrology labs. Air Gage models include an internal high precision pressure regulator and rear panel filter. (Additional up stream filtering is recommended for production installations.)

## Single or Dual Master air gage members. . .

These new instrument models provide the capability to operate either single master or dual master types of air gage members. Sealed membrane Arrow Buttons provide a convenient and reliable means to set the Min-Max span for dual mastered gages. Scale factors for single mastered gages are factory set; and only the Zero Buttons are active.

**Electronic Gaging Cartridges . . .** for applications where contact gaging in preferred, the **MilliCheck** instruments can be configured to operate one or two LVDT type electronic gaging cartridges. The factory installed LVDT gaging module provide "Channel A only", "Channel B Only", "Ch A - Ch B" and "Ch A + Ch B" modes.

## MilliCheck Order Codes:

AEC - (XX) - (XX)

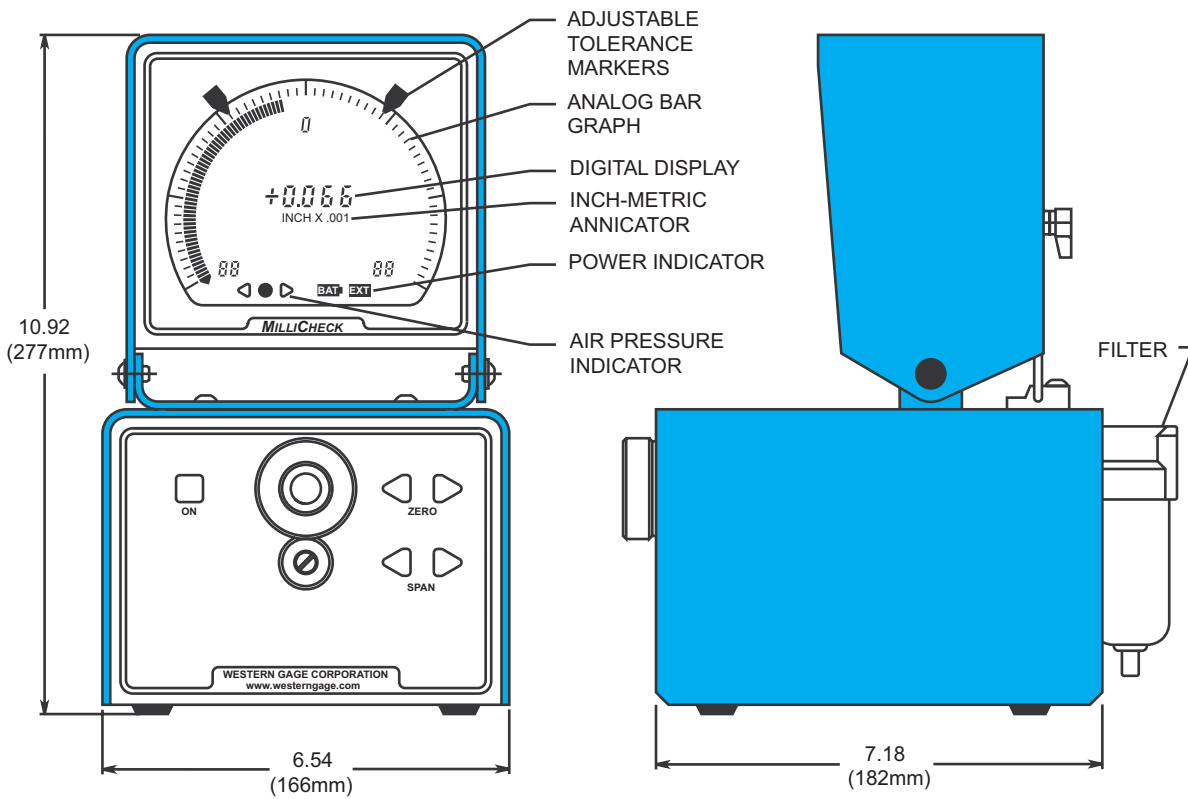
|                            |   |  |   |                      |
|----------------------------|---|--|---|----------------------|
| Model No. - External Power | / |  | / | Gaging Member Type - |
| (30) - 110/125 VAC         |   |  |   | See below            |
| (31) - 220/250 VAC         |   |  |   |                      |



AEC-30-E2 with VeeCheck O.D. Gage

- AEC 30\* - 10** All Dual Mastered Air Gages, Series 10
  - AEC 30\* - 60** Single Master Air Gages, Series 60
  - AEC 30\* - 70** Single Master Air Gages, Series 70
  - AEC 30\* - 80** Single Master Air Gages, Series 80
  - AEC 30\* - E2** LVDT Gaging Cartridges, Hi Gain, Ch A+Ch B
  - AEC 30\* - E5** LVDT Gaging Cartridges, Std.Gain, Ch A+Ch B
- \* Change code to 31 for 220/250 VAC applications*

# MilliCheck Specifications . . .



**Bargraph Display:** 121 Segment LCD

**Digital Display:** 4 Decade LCD

**Controls, Front Panel:**

- Zero Adjust -- sealed Arrow Button switch
- Span (magnification) -- sealed Arrow Button
- Tolerance Markers -- Mechanical slide

**Controls, Rear Panel Slide Switches:**

- Scale Selector - *Any scale listed at the right is selectable*
- Inch or Metric selection
- Operator front panel lockout
- Auto on-off time
- Input polarity

**Gage Input Module (select one):**

- Air Gage, Single Master (Series 60, 70 or 80)
- Air Gage, Dual Master (Series 10)
- LVDT Input, High gain (E1, E2, E3)
- LVDT Input, Low gain (E4, E5, E6)

**Power:**

- Internal Battery:** 4 "D" cells
- External:** 9 VDC  
(110/125 or 220 VAC Adapter included)

**Air:** 40 - 125 psi, 2 CFM (max)

**Weight:** 10 Lbs (4.5 Kg)

**MilliCheck scales -- inches**

| Range Setting | Magnification | Analog Resolution | Digital Resolution |
|---------------|---------------|-------------------|--------------------|
| ± .00015      | 30000         | .000003           | .000002            |
| ± .00030      | 15000         | .000005           | .000005            |
| ± .00075      | 6000          | .000013           | .00001             |
| ± .0015       | 3000          | .000025           | .00002             |
| ± .003        | 1500          | .00005            | .00005             |
| ± .006        | 750           | .00010            | .00005             |
| ± .015        | 300           | .00025            | .0001              |
| ± .030        | 150           | .0005             | .0001              |

**MilliCheck scales -- millimeters**

| Range Setting | Magnification | Analog Resolution | Digital Resolution |
|---------------|---------------|-------------------|--------------------|
| ± .003        | 37500         | .00005            | .00005             |
| ± .006        | 18750         | .00010            | .0001              |
| ± .015        | 7500          | .00025            | .0002              |
| ± .030        | 3750          | .0005             | .0005              |
| ± .060        | 1875          | .0010             | .0010              |
| ± .150        | 750           | .0025             | .002               |
| ± .300        | 375           | .005              | .002               |
| ± .600        | 188           | .010              | .002               |

## Other quality products from Western Gage:

- Air probes & air rings for all major makes of air gage readouts
- Setting masters
- Air gage accessories
- Custom gaging fixtures
- Part-like master gages
- N.I.S.T. traceable calibrations



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