

**Millitron 832** Digital Electronic Amplifier



**Features**

- Dynamics – simultaneously computes the minimum, maximum, T.I.R., nominal and actual gage head signal for dynamic measurement capability.
- Multi-Range – three selectable ranges in inch or metric units.
- Message Center – display provides a simple “menu-driven” setup procedure in English, French or Spanish.
- RS-232 Output – for communicating with Data Collection Devices.
- Two Gage Head Input – Independent reading or for providing the capability of “summing” for diameter reading, matching clearances, runout and parallelism.
- Angular units – selectable arc seconds or millirads for angular measurement applications (see Electronic Levels).
- User selectable password for full lockout capability or individual key lockout in both setup and gaging modes.
- Specific models available for use with Mahr, Mahr Federal, Tesa or Marposs inductive probes.

**Technical Data**

	Measuring Range	Digital Resolution	Analog Minimum Grad.
<b>Linear</b>	±2 mm / <b>±0.100"</b> ±.200 mm / <b>±010"</b> ±.020 mm / <b>±001"</b>	.001 mm / <b>.0001"</b> .0001 mm / <b>.00001"</b> .00002 mm / <b>.000001"</b>	0.1 mm / <b>.005"</b> 0.01 mm / <b>.0005"</b> 0.01 mm / <b>.00005"</b>
<b>Angular</b>	5 mrad / ±1000 arc sec. 1 mrad / ±200 arc sec.	.005 mrad / 1 arc sec. .0005 mrad / 0.1 arc sec.	.25 mrad / 50 arc sec. .05 mrad / 10 arc sec.
<b>Auto Range</b>	automatically selects the smallest range for the best resolution, in both linear and angular units		
<b>Repeatability</b>	±1 digit		
<b>Calibration Accuracy</b>	±1 digit		
<b>Linear Error</b>	less than .025% of full scale		
<b>Response Time</b>	42 msec.		
<b>Thermal Stability</b>	.01% /C x full scale		
<b>Temperature Range:</b>	20°C / 68°F ±2°C		
<b>At Specified Accuracy</b>	5° to 45°C / 40° to 110°F, with a temperature coefficient of .02% change/°C x full scale range.		
<b>Operating Storage</b>	0° to 60°C / 0° to 140°F		
<b>Digital I/O</b>	five TTL opto-isolated outputs		
<b>Data Output</b>	RS-232, transmits Channels A, B, or both, units, and tolerances		
<b>Analog Output</b>	±5 VDC full scale for displayed value signal		
<b>Measuring Modes</b>	Actual, Minimum, Maximum, T.I.R., Nominal		
<b>Tolerance Indicators</b>	five LEDs		
<b>Weight</b>	3.5 lbs. / 1.58 kg		
<b>Dimensions</b>	168 mm w x 254 mm d x 143 mm h / <b>6.63" w x 10" d x 5.63" h</b>		
<b>Gage Head Display</b>	A, B or both at any time		
<b>Auto Power Off</b>	User selectable, up to 99 minutes of non-use		
<b>Power Requirements</b>	rechargeable battery, 10 hour operation under full load: or 120 VAC/240 VAC 50-60Hz with power module (furnished with Amplifier)		
<b>Replacement Battery</b>	<b>EBY-1015</b> Ni-Cad rechargeable, 4.8v, 2.5 amp hours		