

## 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 Marposh inductive probes.

### Technical Data

	Measuring Range	Digital Resolution	Analog Minimum Grad.
<b>Linear</b>	±2 mm/ ±0.100" ±.200 mm/ ±.010" ±.020 mm/ ±.001"	.001 mm/ .0001" .0001 mm/ .00001" .00002 mm/ .000001"	0.1 mm/ .005" 0.1 mm/ .0005" .001 mm/ .00005"
<b>Angular</b>	5 mrad/ ±1000 arc sec. 1 mrad/ ±200 arc sec.	.005 mrad/ 1 arc sec. .000 5mrad/ 0.1 arc sec.	.25mrad/ 50 arc sec. .05mrad/ 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./1.58kg		
<b>Dimensions</b>	254mm w x 168mm d x 143mm h/6.63in w x 10in d x 5.63in h		
<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>	EBY-1015 Ni-Cad rechargeable, 4.8v, 2.5 amp hours		

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Power	832 F Mahr Federal probe type Order no.	832 M Mahr probe type Order no.	832 T Tesa probe type Order no.	832 U Marposs probe type Order no.
120 VAC adapter	2004005	2004000	2004015	2004020
US battery / 120 VAC charger	2004007	2004002	2004017	2004022
EU/UK 220 / 240 VAC adapter	2004006	2004001	2004016	2004021
EU battery / 220 VAC charger	2004008	2004003	2004018	2004023
UK battery / 240 VAC charger	2004009	2004004	2004019	2004024

### Accessories

	Order no.
RS-232 cable, amplifier to MSP2 printer or computer, 2 m/ 6 ft	7024634
Storage Cover (opaque) – protection for the 832 Amplifier when used in harsh environments	ECV-1276
Oil/Splash Cover (clear) – protection for the 832 Amplifier when used in harsh environments	ECV-1285
Footswitch for HOLD/RESUME, 3 m/ 10 ft cable (15 pin)	ECB-1857
Footswitch for DYNAMIC RESET, or remote zeroing 3 m/ 10 ft cable (15 pin)	ECB-1858
Footswitch for SEND DATA, 3 m/ 10 ft cable (15 pin)	ECB-1859
Footswitch for DYNAMIC RESET, or Remote Zeroing, 1.5 m/ 5 ft cable (Phone Plug)	300-50
Remote pushbutton for DYNAMIC RESET, or remote zeroing 1.5 m/ 5 ft cable (Phone Plug)	ECB-1855
Remote pushbutton for SEND DATA, 1.5 m/ 5 ft cable (15 pin)	ECB-1860
Remote pushbutton for HOLD/RESUME, 1.5 m/ 5 ft cable (15 pin)	ECB-1861
Remote pushbutton for HOLD/RESUME and SEND DATA, 3 m/ 10 ft cable (15 pin)	ECB-1868
Relay Box – five relays each with Normally Open/Normally Closed contacts; Contact Rating – 30 Vdc/120 Vac, 3 amps Power Supply – 120 Vac Dimensions – 39mm x 129mm x 134.6mm d/1.53 in x 5.08 in x 5.3 in with ECB-1886W-2, 6.1mm/24 in interconnect cable for amplifier to relay box	EKT-1236-W3
Mating connector, Digital I/O connector (15 pin MALE)	ECN-1695-W2
Mating connector, Reset Data connector (3/32 microphone plug)	ECN-1693
Mating connector, RS-232 Digital Output connector (9 pin FEMALE)	ECN-1695-W1
Mating connector, Gage Head to amplifier connector (5 pin MALE)	ECN-1690
<b>Battery Charger Modules (For 832 Units using 3 pin connector)</b>	
Plug-in, 120 VAC, 50-60Hz charger for use with 120 Vac battery operated units	EBY-1028
220 VAC, 50-60Hz charger for use with 220 Vac battery operated units	EBY-1029
240 VAC, 50-60Hz (UK) charger for use with 240 Vac battery operated units	EBY-1030
<b>Power Supply Module (Bypass battery operated units to direct AC source operation)</b>	
For 120 Vac models (For 832 Units using 3 pin connector)	2010000
For 220/240 Vac models (For 832 Units using 3 pin connector)	2010001
<b>Printers</b>	
Statistics Printer MSP2, US Type includes power module for 110V~ 50-60Hz	4102045
Statistics Printer MSP2, Euro Type includes power module for 220V~ 50-60Hz	4102040
RS-232 Cable: Amplifier to Printer, 2.0m/6 ft	7024634
Paper rolls for MSP-2 Line Printer	4102041