



## Millitron 830 Gaging Amplifier



### Features

- Battery operates more than 8 hours under full load
- Choice of power modules for 120 or 240 Vac operation
- $\pm 2$  volt analog output
- Dual input – for single or differential modes
- Normal/Reverse transducer setting
- Specific models available for use with “Federal” or “Mahr” full-bridge lvdt inductive probes.
- Selectable ranges in either inch or metric units
- Calibration adjustment for each input
- Convenient, front-mounted controls
- Tilt base provides stable support and easy adjustment for best viewing angle
- The essential performer for today’s slim budgets

### Technical Data

<b>Repeatability</b>	to within 0.00005 mm / .000002" or 1/5 of a graduation, whichever is greater
<b>Linearity</b>	less than 4/5 of a scale division
<b>Calibration</b>	less than 4/5 of a scale division
<b>Response Speed-Display</b>	less than .5 seconds for 10% to 90% step follow
<b>Response Time - Output</b>	< 15 ms
<b>Dimensions</b>	approx. 165 mm / 6.5" h x 190 mm / 7.5" w x 148 mm / 5.8" d
<b>Temperature at specified accuracy</b>	20°C / 68°F $\pm 2$ °C
<b>Operating temperature</b>	5° to 45°C / 40° to 110°F, with a coefficient of .02% change/°C x full scale range
<b>Storage temperature</b>	0° to 60°C / 32° to 140°F

MODEL NUMBER	ORDER NUMBER			RANGES	RESOLUTIONS
	120V	220V EU	240V UK		
<b>Linear:</b>					
<b>STANDARD UNIT</b>				$\pm 100 \mu\text{m} / \pm .004''$	5 $\mu\text{m} / 200 \mu''$
830F	2121421	2121431	2121441	$\pm 20 \mu\text{m} / \pm .001''$	1 $\mu\text{m} / 50 \mu''$
830M	2121404	2121405	2121425	$\pm 10 \mu\text{m} / \pm .0002''$	0.5 $\mu\text{m} / 10 \mu''$
<b>HIGH RESOLUTION - INCH</b>				$\pm 200 \mu\text{m} / \pm .004''$	10 $\mu\text{m} / 200 \mu''$
830F	2121424	2121434	2121444	$\pm 50 \mu\text{m} / \pm .001''$	2.5 $\mu\text{m} / 50 \mu''$
				$\pm 10 \mu\text{m} / \pm .0001''$	0.5 $\mu\text{m} / 5 \mu''$
<b>Angular:</b>	<b>120V</b>	<b>220V EU</b>	<b>240V UK</b>		
<b>ANGULAR UNIT - ARCSEC</b> (used with Mahr Federal Level Heads)				$\pm 1000 \text{ Sec} / \pm .010''$	50 Sec / 500 $\mu''$
830F	2121422	2121432	2121442	$\pm 200 \text{ Sec} / \pm .002''$	10 Sec / 100 $\mu''$
				$\pm 20 \text{ Sec} / \pm .0004''$	1 Sec / 20 $\mu''$

### Accessories

Accessories	Order-no.	Compatible Probes	
		Used on 830F	Used on 830M
Analog Output Connector	PRT-2380	P2001F	P2001M
120V Battery Charger	EBY-1016	P2004F	P2004M
220V Battery Charger (EU)	EBY-1019	P2010F	P2010M
240V Battery Charger (UK)	EBY-1020	P2104F	P2104M
Battery	EBY-1021	EHE-2XXX	1301, 1303,
Battery Eliminator Kit for 110V Models	EKT-1237-W1	EGH-Levels	1304, 1318
Battery Eliminator Kit for 220V Models	EKT-1237-W2	(See Catalog to select order number)	