

# Product information

## Electronic levels - differential level system Millimar EMD-832P-48-W2

### Product features

- Compare the orientation attitude of separate or adjacent horizontal surfaces
- Level systems are angular-linear compatible
- Sensing heads are interchangeable with Federal electrical spec.'s gageheads to accommodate linear measurements
- Fast response: quick response to slight angular changes permit taking fast and accurate measurements at various sensing head positions or taking dynamic position readings
- Resolution/Repeatability: Mahr Federal's Electronic Levels far exceed the sensitivity and accuracy of precision spirit levels with a resolution to 6  $\mu\text{in}$  per foot (.1 arc second), compared to the spirit level's resolution of .0001" per foot. With repeatability at  $\pm .1$  arc second, Electronic Levels are ideal for ultra-high resolution profiling.
- Direct dimensional readout: multiplier feature permits operator to view displacement caused by the angular measurement of the level head; this is displayed as an inches per foot readout rather than arc seconds; eliminates readout confusion when switching from spirit levels to electronic levels
- Angular-linear compatible: sensing heads are easily interchangeable with Federal electrical spec.'s gageheads to accommodate linear measurements
- Electronic levels are much easier to use with an autocollimator or a laser based calibration system
- Performance is comparable and results are obtained without time consuming sight path alignments, cleaning of sensitive optical surfaces or hard to control environmental conditions
- The differential level system operates simultaneously with a single amplifier, permitting an immediate comparison between two surfaces
- Adjustable bases permit setup on surfaces that are out-of-level or square by as much as



Item no.: 2120551

### Technical data

<b>Range of digital display <math>\mu\text{m}</math></b>	$\pm 2000, \pm 200, \pm 20$
<b>Range of digital display inch</b>	$\pm .100", \pm .010", \pm .001"$
<b>Resolution <math>\mu\text{m}</math></b>	1, 0,1, 0,02
<b>Resolution arc sec</b>	0.1 arc sec, 1 arc sec
<b>Resolution rad</b>	0.005 mrad, 0.0005 mrad
<b>Tolerance display</b>	LED 5 class
<b>Probe inputs</b>	2
<b>Compatibility</b>	Federal
<b>Dynamic functions</b>	Max, Min, TIR, Nominal
<b>Classification</b>	5
<b>Data interface</b>	RS-232C
<b>Control inputs</b>	3
<b>Control outputs</b>	5
<b>Analog output</b>	$\pm 5\text{Vdc}$
<b>Energy supply</b>	battery operation, 230 V / 50 Hz