

### Product presentation

ER-A-08 for high precision level measurement and leveling professional development in the field of a whole removing high precision dual axis inclinometer, high resolution 0.0005 °, can completely replace the traditional high precision level. Digital signal transmission, supporting professional computer software, data measurement and recording two not wrong, output interface RS485, RS232, TTL, PWM or CAN 2.0Optional.The features of non-contact mounting make the ER-A-08 excellent system integration and easy installation. Just fix the sensor on the surface of the object under test with screws, and the horizontal angle of the object can be calculated automatically. It is easy to use. Strong resistance to external electromagnetic interference, strong shock capacity, in the domestic peer products is an absolute competitive advantage.



### Main Features

- Dual- axis inclination measurement
- Range $\pm 1 \sim \pm 15^\circ$ for optional
- Size: L92×W48×H36mm
- DC 9~36V Wide Input Range
- IP67 level of protection
- Wide range of temperature-40~+85°C
- High vibration resistance>2000g
- Resolution ratio 0.0005°
- Waterproof air plug
- Output mode RS232、RS485、RS422、TTL、CAN 2.0B for optional

### Product application

- Leveling of engineering vehicles
- Bridge and dam monitoring
- Laser positioning
- Medical device Angle control
- Attitude navigation of underground drill
- Railway gauge scale and gauge level
- Measurement of pitch Angle of directional satellite communication antenna
- Slope monitoring of geological equipment
- Horizontal control of precision machine tool

### Performance

Parameter	Condition	ER-A-08-03	ER-A-08-10	ER-A-08-15	Unit
Range		±03	±10	±15	°
Measurement axis		X Y	X Y	X Y	
Resolution ratio		0.0005	0.0005	0.0005	°
Absolute precision	@25°C	0.001	0.005	0.006	°
Long period of stability		0.002	0.003	0.005	°
Zero point temperature	-40~ 85°	±0.0008	±0.0008	±0.0008	°/°C
Spirit acuity temperature	-40~ 85°	≤50	≤50	≤50	ppm/°C
Access to electricity and move		0.5	0.5	0.5	S
Response time		0.005	0.005	0.005	S
Output rate	5Hz、15Hz、35Hz、50Hz、can set				
Output signal	RS232/RS485/RS422/TTL/CAN				
Electromagnetic compatibility	According to EN61000 and GBT17626				
MTBF	≥50000 Hours/time				
Insulation resistance	≥100 M				
Shock resistance	100g@11ms、Triaxial (half sinusoidal wave)				
Anti-Vibration	10grms、10~1000Hz				
Waterproofing grade	IP67				
Cable	Standard 1 m length, wear-resistant, wide temperature, shielded cable 4*0.4mm2 air connector				
Weight	150g(No cable)				

### Electrical parameters of products

Parameter	Condition	Min	Typical value	Max	Unit
Supply voltage	Standard	9	12、24	36	V
	Customizable		Other voltage		V
Working current	Non-loaded		50		mA
Operating temperature		-40		+85	°C
Storage temperature		-55		+100	°C