

## T7000-A: HIGH PRECISION ANALOG CURRENT OUTPUT DUAL-AXIS TILT SENSOR

### ■ PRODUCT DESCRIPTION

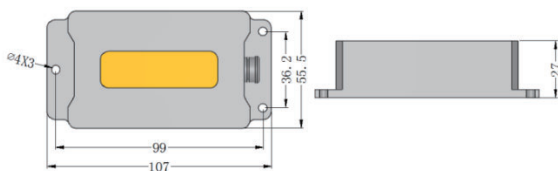


T7000-A is a standard industrial high-precision current output dual-axis inclination sensor. RS232 output can be used for long-distance transmission of 2000 meters. The built-in (MEMS) solid pendulum converts the change of the static gravity field into a change of inclination angle by measuring the change of the static gravity field. The product makes accurate compensation and correction for temperature error and linearity error, high accuracy, good anti-vibration, anti-electromagnetic interference circuit, especially suitable for the application of underground non-excavation machinery and other harsh industrial environments.

### ■ PRODUCT MAIN SPECIFICATION

Parameter	Conditions	T7000-A-5	T7000-A-10	T7000-A-15	T7000-A-30	Unit
Measuring range		±5	±10	±15	±30	°
Measuring axis	axis	X, Y	X, Y	X, Y	X, Y	
Zero temperature drift	-40 ~ 85°	±0.0007	±0.0007	±0.0007	±0.0007	°/°C
Sensitivity temperature coefficient	-40 ~ 85°	≤50	≤50	≤50	≤50	ppm/°C
Zero bias	0° output	4~20mA output-12mA 0~20mA output-10mA 0~24mA output-12mA				mA
Frequency response	DC response	100	100	100	100	Hz
Resolution	Bandwidth 5Hz	0.0007	0.0007	0.0007	0.0007	°
Accuracy	-40 ~ 85 °C	0.005	0.006	0.0065	0.007	°
Power-on start time		0.2				s
Response time		0.01				s
Output signal		4-20mA, 0-20mA, 0-24mA (optional)				
Average working hours		≥45000 hours/time				
Impact resistance		20000g, 0.5ms, 3 times/axis				
Anti-vibration		10grms、10 ~ 1000Hz				
Insulation resistance		≥100MΩ				
Waterproof level		IP67				
Cable		Standard 1.5 meter-length, wear-resistant, oil-proof, wide temperature, shielded cable 6*0.3mm <sup>2</sup>				
Weight		250g (excluding packaging box)				

### ■ PRODUCT DIMENSION



SIZE: L107\*W55.5\*H27MM

### ■ PRODUCT APPLICATION

- Railway gauge ruler and gauge leveling
- Bridge, dam monitoring
- Gimbal leveling
- Precision laser platform equipment
- Tilt based monitoring
- Satellite solar antenna positioning
- Ship navigation attitude measurement
- Medical equipment
- Angle control of various construction machinery
- Precision machine tool horizontal control