

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

■ PRODUCT DESCRIPTION

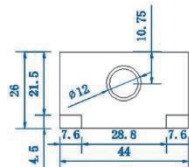
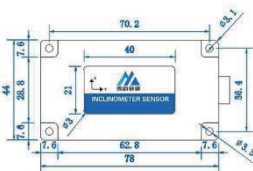


The T7000-C series is a high-performance current output dual-axis tilt sensor. The measurement range is dual axis $\pm 90^\circ$ with a maximum accuracy of 0.008° . It can output standard 4-20mA, 0-20mA, and 0-24mA analog currents, with RS232 and RS485 options available simultaneously. Good anti-interference characteristics, suitable for long-distance signal transmission. The product is easy to install and use, with multiple output options, resistant to external electromagnetic interference, and strong ability to withstand vibration and impact, suitable for measuring angles in industrial control environments such as surveying and mapping.

■ PRODUCT MAIN SPECIFICATION

Parameter	Conditions	T7000-C	Unit
Measuring range		± 90	$^\circ$
Measuring axis	axis	X, Y	
Zero temperature drift	$-40 \sim 85^\circ$	± 0.001	$^\circ/^\circ\text{C}$
Sensitivity temperature coefficient	$-40 \sim 85^\circ$	≤ 50	ppm/ $^\circ\text{C}$
Zero bias	0° output	4~20mA output-12mA 0~20mA output-10mA 0~24mA output-12mA	mA
Frequency response	DC response	100	Hz
Resolution	Bandwidth 5Hz	0.001	$^\circ$
Accuracy	$-40 \sim 85^\circ\text{C}$	0.008	$^\circ$
Power-on start time		0.2	s
Response time		0.01	s
Output signal	4-20mA, 0-20mA, 0-24mA (optional)		
Average working hours	≥ 55000 hours/time		
Impact resistance	10000g, 0.5ms, 3 times/axis		
Anti-vibration	10grms、10 ~ 1000Hz		
Insulation resistance	$\geq 100\text{M}\Omega$		
Waterproof level	IP67		
Cable	Standard 1.5 meter-length, wear-resistant, oil-proof, wide temperature, shielded cable $6 \times 0.3\text{mm}^2$		
Weight	150g (excluding packaging box)		

■ PRODUCT DIMENSION



SIZE: L78*W44*H28MM

■ PRODUCT APPLICATION

- Railway gauge ruler and gauge leveling
- Bridge, dam monitoring
- Fan oscillation attitude
- Signal tower, high-voltage power line tower
- Robot tilt monitoring
- Satellite solar antenna positioning
- Ship navigation attitude measurement
- Medical equipment
- Angle control of various construction machinery
- Precision machine tool horizontal control