

## T7000-J: WIRELESS DIGITAL OUTPUT DUAL-AXIS TILT SENSOR



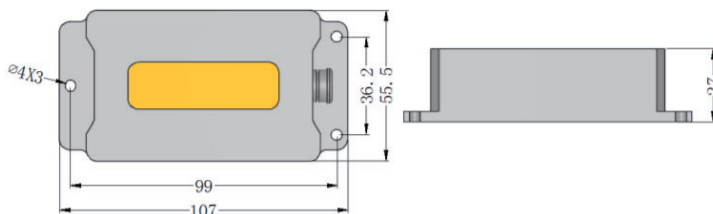
### ■ PRODUCT DESCRIPTION

T7000-J is a high-performance sensor based on Bluetooth and Zigbee (optional) wireless transmission technology. The sensor has a measuring range of  $\pm 90^\circ$ , accuracy of  $0.1^\circ$ , resolution of  $0.01^\circ$  (optional). It is suitable for safety monitoring systems in industrial sites, buildings, and civil engineering. The wireless transmission distance of industrial grade equipment: Bluetooth < 50 meters, Zigbee < 450 meters. Wireless sensor nodes can form a huge wireless network, supporting thousands of measurement points for tilt monitoring simultaneously. Equipped with professional computer software, it can measure and record real-time data.

### ■ PRODUCT MAIN SPECIFICATION

Parameter	Conditions	T7000-J-10	T7000-J-30	T7000-J-60	T7000-J-90	Unit
Measuring range		$\pm 10$	$\pm 30$	$\pm 60$	$\pm 90$	$^\circ$
Measuring axis	axis	X, Y	X, Y	X, Y	X, Y	
Zero temperature drift	$-40 \sim 85^\circ$	$\pm 0.01$	$\pm 0.01$	$\pm 0.01$	$\pm 0.01$	$^\circ/\text{C}$
Sensitivity temperature coefficient	$-40 \sim 85^\circ$	$\leq 150$	$\leq 150$	$\leq 150$	$\leq 150$	ppm/ $^\circ\text{C}$
Frequency response	DC response	100	100	100	100	Hz
Resolution	Bandwidth 5Hz	0.01	0.01	0.01	0.01	$^\circ$
Accuracy	$-40 \sim 85^\circ\text{C}$	0.1	0.1	0.1	0.1	$^\circ$
Long term stability	$-40 \sim 85^\circ\text{C}$	<0.12	<0.12	<0.12	<0.12	$^\circ$
Power-on start time		0.2				s
Response time		0.05				s
Output rate		2450MHZ (default), 2450~2480 adjustable				
Output signal		Bluetooth/ Zigbee optional				
Average working hours		$\geq 55000$ hours/time				
Impact resistance		3500g, 0.5ms, 3 times/axis				
Anti-vibration		10grms、10 ~ 1000Hz				
Insulation resistance		$\geq 100\text{M}\Omega$				
Waterproof level		IP67				
Weight		280g (excluding packaging box)				

### ■ PRODUCT DIMENSION



SIZE: L107\*W55.5\*H27MM

### ■ PRODUCT APPLICATION

- Railway locomotive monitoring
- Precision laser platform equipment
- Vehicle chassis monitoring
- Based on tilt angle monitoring
- Pan tilt leveling
- Satellite solar antenna positioning
- Ship navigation attitude measurement
- Medical equipment
- Angle control of various construction machinery
- Precision machine tool horizontal control