T700-A: MEDIUM PRECISION DIGITAL OUTPUT DUAL-AXIS TILT SENSOR

■ PRODUCT DESCRIPTION

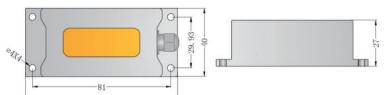


T700-A is a digital output dual-axis inclination sensor with a built-in high-precision 16bit A/D converter and can measure the tilt and pitch angle of the sensor output relative to the horizontal plane through an n-order filter algorithm. Output interface RS232, RS485, RS422, TTL, Modbus, PWM, CANbus are optional. The product can correct the sensor temperature drift according to the monitoring temperature change of the built-in temperature sensor, ensuring the repeatability of the product in low temperature and high temperature environments. Output corresponding frequency 100HZ.

PRODUCT MAIN SPECIFICATION

Parameter	Conditions	T700-A- 10	T700-A- 30	T700-A- 60	T700-A- 90	Unit
Measuring range		±10	±30	±60	±90	0
Measuring axis		X, Y	X, Y	X, Y	X, Y	
Zero temperature drift	-40 ~ 85°	±0.008	±0.008	±0.008	±0.008	°/℃
Sensitivity temperature coefficient	-40 ~ 85°	≤100	≤100	≤100	≤100	ppm/℃
Frequency response	DC response	100	100	100	100	Hz
Resolution		0.001	0.001	0.001	0.001	0
Accuracy	-40 ~ 85 °C	0.01	0.02	0.03	0.05	0
Long term stability	-40 ~ 85℃	<0.013	<0.022	<0.031	<0.054	0
Power-on start time	0.2					S
Response time	0.01					S
Output rate	5Hz, 15Hz, 35Hz; 50Hz can be set (RS485 does not have this function)					
Output signal	RS232/RS485/RS422/TTL/PWM/ CAN/(MODBUS Optional)					
Average working hours	≥55000 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 4*0.2mm2					
Weight	150g (excluding packaging box)					

PRODUCT DIMENSION



SIZE: L90*W40*H27MM

PRODUCT APPLICATION

- Railway gauge ruler and gauge leveling
- Wind turbine shimmy attitude
- Bridge, dam monitoring
- Robot tilt monitoring
- Signal towers, highvoltage power poles
- Satellite solar antenna positioning
- Medical equipment
- Angle control of various construction machinery
- Precision machine tool horizontal control