T70-G: DIGITAL OUTPUT DUAL-AXIS INCLINATION SENSOR SINGLE BOARD

PRODUCT DESCRIPTION

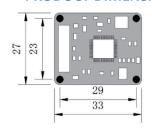


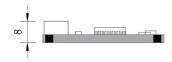
The T70-G series is a new generation of digital small volume MEMS tilt sensors launched by MXMW Hi-Tech Company. It is equipped with a dual channel Earth gravity tilt unit, which measures dynamic gravity acceleration and converts it into tilt angle changes. Thus, it is possible to measure the tilt and pitch angles of the sensor output relative to the horizontal plane. The output methods RS232, RS485, RS422, Modbus, and TTL level interface standards are optional. Due to the built-in MCU control system, the sensor output linearity is corrected twice, compensating for the accuracy decrease caused by insufficient correction in analog models.

PRODUCT MAIN SPECIFICATION

Parameter	Conditions	T70-G- 10	T70-G- 30	T70-G- 60	T70-G- 90	Unit
Measuring range		±10	±30	±60	±90	٥
Measuring axis		X, Y	X, Y	X, Y	X, Y	
Zero temperature drift	-40 ~ 85°	±0.05	±0.05	±0.05	±0.05	°/℃
Sensitivity temperature coefficient	-40 ~ 85°	≤200	≤200	≤200	≤200	ppm/℃
Frequency response	DC response	100	100	100	100	Hz
Resolution	Bandwidth 5Hz	0.05	0.05	0.05	0.05	۰
Accuracy	-40 ~ 85 ℃	0.3				0
Long term stability	-40 ~ 85 °C	<0.32				٥
Power-on start time		0.2				S
Response time		0.01				S
Output rate	5Hz, 15Hz, 35Hz, 50Hz, 100HZ 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	2500g, 0.5ms, 3 times/axis					
Anti-vibration	10grms、10 ~ 1000Hz					
Insulation resistance	≥100ΜΩ					
Waterproof level	IP66					
Cable	Standard 10 cm-length, wear-resistant, oil-proof, wide temperature, shielded cable 4*0.2mm2					
Weight	6g (excluding packaging box)					

PRODUCT DIMENSION





SIZE: L33*W27*H8MM

PRODUCT APPLICATION

- High-voltage power line tower monitoring
- Aerial work vehicles
- Pan/tilt leveling
- Charging piles and towers
- trucks
- Mining machinery, oil drilling equipment
- Charging piles and towers
- Forklifts, engineering dump
 Solar photovoltaic tracking antenna positioning
 - Medical equipment
 - Angle control of various construction machinery