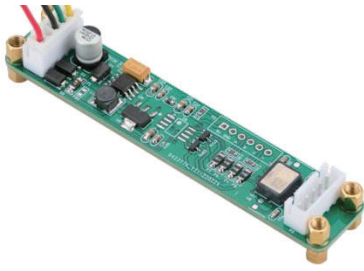


## T700-D: DIGITAL OUTPUT TRI-AXIS INCLINATION SENSOR SINGLE BOARD

### ■ PRODUCT DESCRIPTION

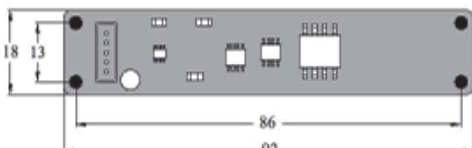


T700-D is a digital output (X, Y, Z) three-axis inclination sensor launched by MXMW Hi-Tech Company for the field of industrial field control. It has a built-in high-precision 16bit A/D converter, and through an n-order filtering algorithm, it finally outputs X, Y, Z-axis inclination angle value. The output interfaces RS232, RS485, RS422, TTL, Modbus and CAN bus are optional. The product can correct the sensor temperature drift based on the temperature changes monitored by the built-in temperature sensor to ensure the repeatability of the product in low and high temperature environments. Output corresponding frequency 100HZ.

### ■ PRODUCT MAIN SPECIFICATION

Parameter	Conditions	T700-D-10	T700-D-30	T700-D-90	T700-D-180	Unit
Measuring range		±10	±30	±90	±180	°
Measuring axis		X, Y, Z	X, Y, Z	X, Y, Z	X, Y, Z	
Zero temperature drift	-40 ~ 85°	±0.001	±0.001	±0.001	±0.001	°/°C
Sensitivity temperature coefficient	-40 ~ 85°	≤100	≤100	≤100	≤100	ppm/°C
Frequency response	DC response	100	100	100	100	Hz
Resolution		0.002	0.002	0.002	0.002	°
Accuracy		0.01	0.02	0.03	0.05	°
Long term stability		<0.015	<0.021	<0.033	<0.052	°
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		20000g, 0.5ms, 3 times/axis				
Anti-vibration		10grms、10 ~ 1000Hz				
Insulation resistance		≥100MΩ				
Waterproof level		IP66				
Cable		Standard 10cm length, wear-resistant, oil-proof, wide temperature, shielded cable 4*0.3mm <sup>2</sup>				
Weight		10g (excluding packaging box)				

### ■ PRODUCT DIMENSION



SIZE: L92\*W18\*H16MM

### ■ PRODUCT APPLICATION

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