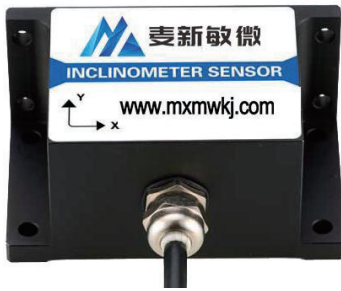


T70-B: EXPLOSION-PROOF FOR MINING ANALOG/DIGITAL OUTPUT 2-AXIS TILT SENSOR

■ PRODUCT DESCRIPTION



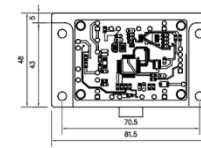
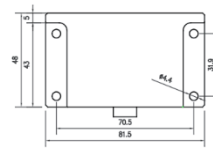
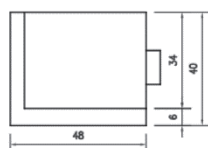
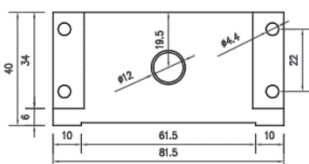
The T70-B series is a dual-axis tilt sensor for the fields of industrial site control and explosion-proof and hazardous inclination angle measurement. The internal MCU, MEMS inclination angle module, power circuit, and output circuit have been optimized for protection design. Before leaving the factory, each product has undergone a full temperature range calibration and compensation, and a two-week long-term stability test to ensure that it maintains the best performance indicators under different working conditions and long-term test cycles. The product integrates two digital output protocols and multiple output interfaces.

■ PRODUCT MAIN SPECIFICATION

Parameter	Conditions	T70-B			Unit
Accuracy	-40 ~ 85°C	0.3	0.1	0.01	°
Resolution	-40 ~ 85°C	0.05	0.01	0.002	°
Measuring axis		X, Y axis	X, Y axis	X, Y axis	
Frequency response	DC response	100	100	100	Hz
Long term stability	-40 ~ 85°C	<0.032	<0.15	<0.02	°
Zero temperature drift	85°<sensor sensor<-40°	±0.05	±0.01	±0.002	°/°C
Measuring range		Biaxial ±90 Single axis ±180			°
Power-on start time		0.2			s
Response time		0.01			s
Automatic output rate	5Hz output/15Hz, 35Hz, 50Hz can be set (RS485 does not have this function)				
Output signal	RS232/RS485/RS422/TTL can be ordered				
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 wire	Standard 1.5 meter-length, wear-resistant, oil-proof, wide temperature, shielded cable 6*0.2mm ²				
Weight	185g (excluding packaging box)				

■ PRODUCT DIMENSION

SIZE: L81.5*W48*H40MM



■ 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