

PRODUCT OVERVIEW

Inclination transmitter

Model ES-T504





Application

- The Kalman filter algorithm is used to make the angle value collected by the device accurate and stable.
- It has a wide angle measurement range and good output signal linearity.
- It uses a dedicated 485 circuit and standard ModBus-RTU communication protocol.
- A wide voltage range of 5~30V DC.

Compliance

CE

The electromagnetic compatibility in accordance with the following applicable directives: EMC 2014/30/EU Electromagnetic Compatibility EMC 2014/35/EU Electromagnetic Compatibility

Introduction

ES-T504 high-precision inclinometer is a standard industrial inclinometer that can be used outdoors for a long time by detecting the inclination angle in the use environment to determine the inclination state of the device. The inclinometer is based on a "high-performance MEMS chip" and has an internal "high-precision acceleration sensor". It uses the proportional relationship of gravity acceleration in different directions to calculate the real-time inclination angle of the object being measured.

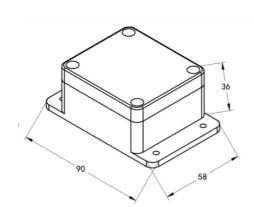
The output signal type is divided into RS485, the maximum communication distance is 2000 meters, the standard ModBus protocol, and supports secondary development.

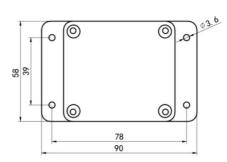
Application

It is widely used in industrial inclination measurement and dangerous building monitoring, ancient building protection monitoring, bridge tower inclination measurement, tunnel monitoring, dam monitoring, weighing system inclination compensation, drilling inclination control and other industries

Dimension

Unit:mm





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Specification

DC power supply (default)	DC 5-30V	
Maximum power consumption	≤0.15W	
Working temperature and humidity	-40°C–60°C, 0–95%RH (non-condensing)	
Range	X-axis -180°~180° Y-axis -90°~90° Z-axis -180°~180°	
Resolution	0.01°	
Typical accuracy	X, Y axis: static accuracy ±0.1°, dynamic accuracy ±0.5° Z axis: static accuracy ±0.5°, dynamic accuracy has integral error	
Temperature drift	±(0.5°~1°), (-40°C ~ +60°C)	
Response time	<15	
Protection level	IP65	
Default cable length	60cm, cable length can be customized as required	
Dimensions	90*58*36mm	
Output signal	0-5V/0-10V/4-20mA, RS485 (Modbus protocol), Lora, NB-IOT	

Order guide

ES-T504	high-precision inclinometer			
	CODE	Range X-axis -180°~180° Y-axis -90°~90° Z-axis -180°~180° X-axis: -30°~+30° Y-axis: -30°~+30°		
	R1			
	R2			
		CODE	Signal output	
		1	RS485	
		2	Analog 0-5V/0-10V/4-20mA, (choose one)	
		3	Lora	
		4	NB-IOT	
ES-T504	R1	1	Order example	