

HT60 True north magnetic compass

Product overview

True north magnetic compass has high precision, by putting the three axial magnetic sensor and three axis tilt sensor into a single module, the module is one of the smallest modules on the market at present, with the hard and soft



iron iron calibration, using advanced algorithms, provides highly accurate heading information, adapt to application in high altitude high latitudes. The module outputs precise attitude information and can be used in systems requiring full 360 rotation. Due to its small size, the HT60 can accommodate today's size-sensitive systems. These advantages make HT60 an application choice with high accuracy and high performance anywhere in the world.

High-performance solid state navigation equipment, high-performance attitude measurement, IMU system integration, triaxial magnetic field sensor, robot system, laser rangefinder, drilling platform.

Application

Features	Conditions	Typical
Heading accuracy	<65° tilt	0.1°RMS
	<80° tilt	0.2RMS
	Resolution	0.1°
Tilt accuracy	Pitch accuracy	0.1°RMS
	Roll accuracy	0.1°RMS
	Tilt range	Pitch ±90° , Roll±180°
Calibration method	Hard iron calibration	contains
	Soft iron calibration	contains
	Calibration method	Full range calibration and 2D calibration
Magnetic information	Measuring range	±80μT
	linearity	0.25%FS
	Magnetic field resolution	±0.05μT
Physical characteristics	Dimensions	35×43×13mm
	Weight	12g
	Mounting direction	Horizontal or vertical installation
Interface features	Startup delay	<210ms
	Sleep mode delay	<1ms
	Maximum sampling rate	30/s
	RS-232 Communication rate	300 to 115200baud
Power supply	Support voltage	3.8 to 9V
	Current typical	15mA
Environment	Storage temperature	-40℃--+125℃
	Operating temperature	-40℃--+85℃
Electromagnetic compatibility characteristics	GB/T17626.2-2006 GB/T17626.5-2008	Through electrostatic discharge immunity,surge(shock) immunity test.

Main Specifications

PCB Size

Unit: mm

