C9000-A: HIGH PRECISION SIX-AXIS FULL ATTITUDE ELETRONIC COMPASS

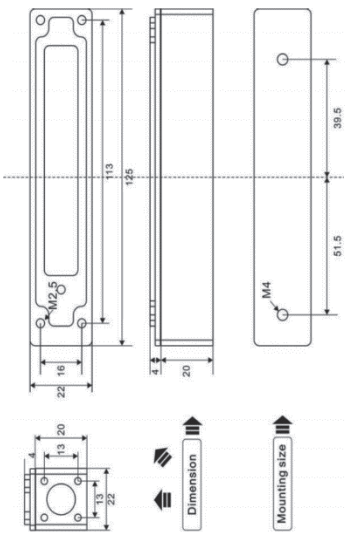
PRODUCT DESCRIPTION

C9000-A is a high-precision 6-axis full attitude electronic compass launched by MXMW Hi-Tech Company. It is cylindrical and consists of an industrial grade microcontroller with high reliability and strong anti-interference ability, as well as high-precision inclination sensors, magnetic sensors, and driving chips. The independently developed hard and soft magnetic calibration algorithms enable the compass to eliminate the influence of magnetic fields even in environments with magnetic field interference through calibration algorithms; The patented inclination compensation algorithm compensates for the heading of a large range of inclination angles.

PRODUCT MAIN SPECIFICATION

Parameter		C9000-A
Compass heading parameters	Heading accuracy	0.3~0.5° (RMS, pitch<85°)
	Resolution	0.1°
	Repeatability	0.05°
Compass inclination parameters	Pitch accuracy	0.1°
	Roll accuracy	0.01° (pitch<15°) 0.02° (pitch<50°) 0.05° (pitch<80°)
	Inclination angle resolution	0.005°
	Inclination range	Pitch ±90°; Roll 360°
Calibration	Hard iron calibration	Yes
	Soft iron calibration	Yes
	Tilt calibration	Yes
Physical properties	Size	L125*W22*H24 (mm)
	Weight	110g
	RS-232/RS485 interface connector	5-pin aviation connector
Interface features	Startup delay	<50ms
	Maximum sampling rate	50 times/second
	RS-232 communication rate	2400~19200 baud rate
	RS-485 communication	optional
	TTL communication	optional
	Output format	hexadecimal
Power supply	Support voltage	DC+5V (9~36V)
	Current (max)	40mA
	Working mode	30mA
Environment	Storage range	-40℃--+125℃
	Working temperature	-40℃--+85℃
	Vibration resistance	3000g

PRODUCT DIMENSION



SIZE: L125*W22*H24MM

PRODUCT APPLICATION

- Individual combat equipment
- Petroleum geological logging
- Underwater navigation
- Navigation GPS
- Marine survey
- Ship navigation attitude measurement
- Accurate laser platform equipment
- Unmanned aerial vehicles (UAV)
- Based on inclination monitoring