

C9-A: 40° TILT ANGLE COMPENSATION DIGITA OUTPUT 3D ELETRONIC COMPASS



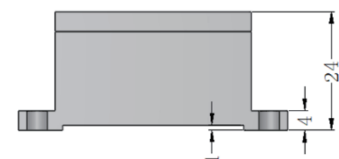
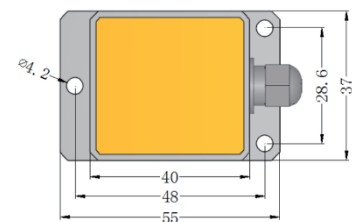
■ PRODUCT DESCRIPTION

C9-A is a high-precision 3D electronic compass launched by MXMW Hi-Tech Company, which introduces advanced 3D compensation patent technology from the United States, allowing accurate heading data to be provided even at a product tilt angle of $\pm 40^\circ$. The product has a small size, low power consumption, and can be applied in many fields such as antenna stability, vehicles, and system integration. Its high seismic resistance and reliability also enable the compass to work normally in extremely harsh environments, making it more suitable for today's miniaturized high-precision measurement and integrated control systems.

■ PRODUCT MAIN SPECIFICATION

Parameter	C9-A	
Compass heading parameters	Heading accuracy	1° (RMS, pitch<45°)
	Resolution	0.1°
	Repeatability	0.3°
	Measurement range	0~360°
	Tilting range	$\pm 40^\circ$
Compass inclination parameters	Pitch accuracy	0.15°
	Roll accuracy	0.15°
	Inclination angle resolution	0.01°
	Inclination range	Pitch $\pm 90^\circ$; Roll $\pm 180^\circ$
Calibration	Hard iron calibration	Yes
	Soft iron calibration	Yes
	Tilt calibration	Yes
Physical properties	Size	L55*W37*H24 (mm)
	Weight	75g
	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	35mA
Environment	Storage range	-40°C--125°C
	Working temperature	-40°C--85°C
	Vibration resistance	2600g

■ PRODUCT DIMENSION



SIZE: L55*W37*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