

PLATFORM AIR/MARINE GRAVIMETER

BEIJING AUTOMATION CONTROL EQUIPMENT INSTITUTE



- GIPS-1A/M

Overview of product

GIPS-1A/M light three-axis inertial stabilized platform aerial gravimeter is a kind of moving-platform relative-scalar gravity measurement instrument with high accuracy and small size. It can be loaded on fixed-wing aircraft, helicopter, UAV, survey vessel, and other moving platforms to measure earth gravity dynamically and has the advantage to realize gravity measurement for hard-to-reach regions such as desert, marshland, mountain, river, virgin forest, lake, and sea so that it is suitable for gravity measurement conducted on small-sized low-cost UAV and synchronous measurement of various earth information such as gravity, geomagnetism, galvanomagnetism, and radioactive rays.

Technical characteristics

High accuracy, small volume, light weight, strong disturbance adaptability, easy operation, high reliability, and autonomous development to a greater extent.

Field of application

Oil gas and mineral resources prospecting, geodetic survey and geological investigation, geophysical research, marine research, military high-precision autonomous navigation, etc.

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TYPE	GIPS-1A
Performance	
Dynamic accuracy (mGal)	1
Operating range/Environment	
Measurement range (Gal)	-2000 to +2000
Operating range (deg)	pitch/roll:-60 to +60,heading:0 to 360
Operating temperature (°C)	-10 to +45
Electrical	
Power[V]	DC28,AC220
Power consumption (w)	150
Input/output	RS-422/232
Data rate (Hz)	100
Physical	
Dimensions (mm)	420 x 280 x 220
Weight (kg)	≤50



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