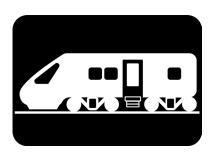
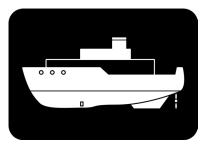


MEMS - IMU JCS7603







Key features

- High performance MEMS Inertial sensor
- Real time data outputs : Angular rate, acceleration, roll, pitch, heading and position*
- GPS Hybrid available
- Compact and lightweight 87 × 128 × 88 (mm), 850g
- Maintenance free

*Optional: GPS receiver embedded

Applications

- Railway
- Ships
- Aircraft
- Vehicles
- · Launch vehicles
- Helicopters
- Drones
- UUV

The JCS7603 is a high performance inertial measurement unit that utilizes industry leading high performance MEMS gyroscopes and accelerometers. It is a small, lightweight and cost effective MEMS IMU that can be used for various applications. Combined with optional GPS information, the JCS7603 provides accurate angular rate, acceleration, attitude angle, heading and position.

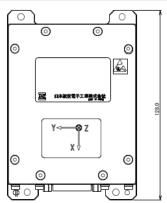
To be exported in accordance with all relevant regulations

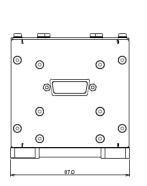


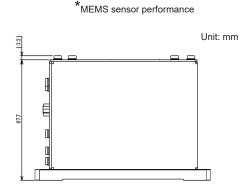
Technical data

Performance					
Attitude	Roll (±180°)	0.1°rms			
	Pitch (±90°)	0.1°rms			
	Heading (0°-360°)	±(1% of input angle +0.4°/min)			
Angular Rate	Range	±400°/s			
	Bias instability*	0.1°/ h			
	Random walk*	0.02°/ √h			
Acceleration	Range	±98 m/s²			
	Bias instability*	15 μG			
	Random walk*	0.05 m/s/√h			
Function and Interface					
Data outputs		Angular Rate, Acceleration, Attitude, Heading, Velocity, Position (option)			
Interface		RS-422 (1Mbps or 115.2kbps)			
		RS-232C (10Hz)			
Electrical					
Power Supply Voltage		+20VDC to +30VDC (+24VDC Nom.)			
Power Consumption		≦5W (+24VDC Nom.)			
Mechanical Mechanical					
Width×Depth×Height		W87×D128×H88mm			
Weight		≦0.85kg			
Options					
GPS Hybrid / Velocity Hybrid					

Dimensional drawings







Contact information

For more information on these products and other product ranges visit www.jae.com

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Document revision table

Document number	Issue	Revision date	Changes
VCL001-000024	01	10/01/2021	New document

JAE reserves the right to modify specifications without prior notice.