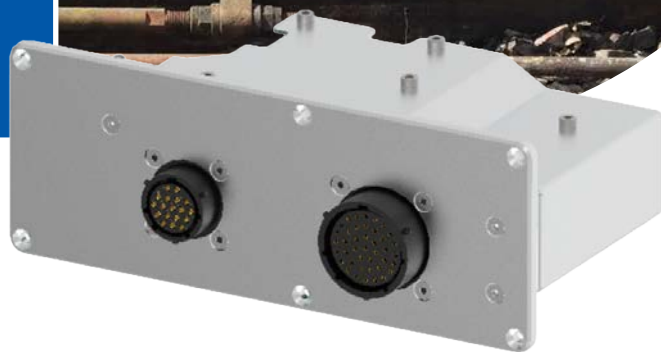


μS2G2 - OEM
series

**Designed
for efficient,
space-saving
solutions**



**Through innovation,
we surpass standard expectations**





Harnessing Power and Affordability for Exceptional Surface Eddy Current Array Inspections for integrations and OEM applications.



The μ S2G2-OEM is a compact, high-performance Eddy Current **device** designed for integrators seeking efficient, space-saving solutions for non-destructive testing (NDT) applications. Ideal for low-channel count or portable systems, this device delivers the same precision and flexibility as its larger counterparts in a smaller, OEM-friendly form factor.

Key Features

The OEM version maintains the high specifications of the ready-to-use μ S2G2 while providing enhanced flexibility for OEM applications. Packaged in a simple yet functional case, idealised for integration. It is available in two configurations:

- **Single Connector:** Designed for direct integration with hard-wired I/O connections to the board.
- **Dual Connector:** Features a standard 18-pin Amphenol connector for I/O connections, ensuring seamless integration.



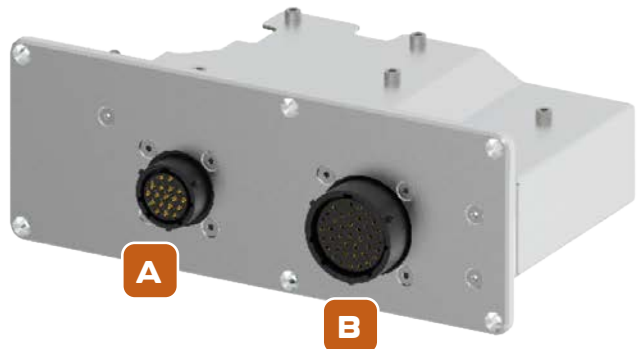
μS2G2-OEM-1

When I/O devices will be hard-wired to the electronics boards.



μS2G2-OEM-2

When I/O devices will be connected to the boards using an Amphenol connector.



A

I/O Connector

- 18-pin Amphenol connector
- Several I/O configurations to drive automatic swquencing
- 2 real-time alarms

B

Probe Connector

Standard 41-pin Amphenol connector is used for all Eddy Current and Eddy Current Array (ECA) surface probes.

Technical Specifications

Number of Channels	Up to 128
Signal Processing	24-bit Analog-to-Digital Converter
Frequency Range	20 Hz to 6 MHz
Output Voltage	Up to ± 10 V
Operating Modes	Eddy Current, Eddy Current Array (ECA)
Communication Interfaces	Ethernet, USB, UART
Power Requirements	12 V DC, 10 W (typical)
Operating Temperature	0°C to 50°C (32°F to 122°F)
Dimensions	6cm(2.4") x 16cm(6.3") x 11cm(4.4")
Weight	0.45kg (1lb)

Benefits

- **Space-Saving Design:** Ideal for portable and embedded systems.
- **High Precision:** Advanced signal processing ensures accurate detection of flaws.
- **Cost-Effective Solution:** Optimized for low-channel count applications without compromising performance.
- **Seamless Integration:** Multiple interfaces and compact design simplify implementation.
- **Software Support:** Compatible with EMMA software for powerful data visualisation and analysis.

Applications

- **Aerospace:** Inspection of small components and aircraft systems.
- **Rail:** Wheels, Axels and track inspections
- **Automotive:** Testing of engine parts, gears, and assemblies.
- **Energy:** pipelines, and small-diameter tubing and critical surfaces.
- **Manufacturing:** Quality assurance and defect detection in production lines.

Package Includes

- MicroS2G2-OEM device
- Power supply and interface cables
- API documentation and mechanical step file
- User manual



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