µS2G2 series -OEM

Designed for efficient, space-saving solutions

Through innovation,
we surpass standard expectations

ndt™

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

The µS2G2-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 µS2G2 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.

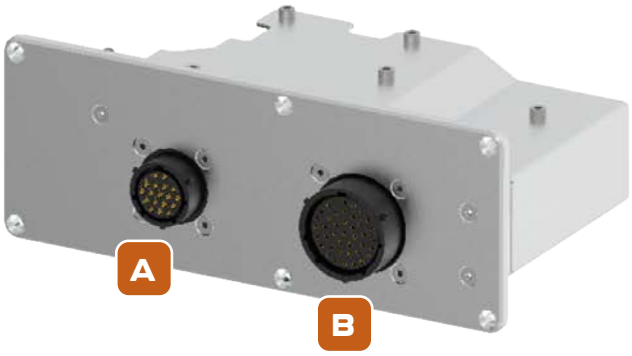
μS2G2-OEM series

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

visit us online at: sgndt.com

North America Canada

Head Office - SG NDT Inc.

425, 3e Avenue, Suite 200, Lévis,
Québec G6W 5M6
Canada

Tel: 1 (418) 830-8808
info@sgndt.com

Europe France / UK

Subsidiary - SG NDT SARL.

Algo Business Centre, Glenearn Road,
Perth PH2 0NJ
United Kingdom

Tel: 33 6 51490036
info@sgndt.com

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