µS2G2-200i

The Perfect Integration Platform for Unsurpassed Eddy Current Capability

Through innovation,
we surpass standard expectations

SG NDT
AN EKOSCAN COMPANY

Designed with functionality and capability firmly in mind

The microS2G2-200i represents simplicity and superior technical capability. The µS2G2-200i has been designed specifically with functionality and capability firmly in mind, being supplied with industry-standard connectors for quick and efficient Electromagnetic inspections.

The µS2G2-200i boasts a wide frequency range (20Hz-6MHz), double probe input, double encoder input, two independent real-time alarms, plus much more. The microS2G2-200i makes for a perfect integration platform for applications such as in-line wire and bar inspection, material sorting systems or other applications requiring a simple high-end eddy current electronics platform.

Key Advantages

- Simple 12-15V mains powered
- RJ-45 Standard Ethernet connection
- Front mount Industrial connectors for easy integration
- Impressive technical specifications

µS2G2-200i

A I/O Connector

- 18-pin Amphenol connector
- Several I/O configurations
- 2 real-time alarms
- Encoder inputs

B Ethernet Connector

- RJ-45 industry-standard connector
- Used for connecting the instrument to a PC or tablet PC

C Probe Connector

Standard 19-pin Amphenol connector is used to connect a variety of conventional electromagnetic probes

D Power On/Off

- Simple, reliable push button

E DC Connector

The µS2G2-200i can be operated using either an external mains power 15 VDC power supply/adapter, or an external 24VDC battery pack could be used if required

Industrial inline inspection system using µS2G2-200i Eddy Current Instrument

- Inspection of long products (e.g. wires) at very high speed upon production
- Inline inspection of rods, bars and tubes of various material at high speed.
- Inspection of up to 2 simultaneous production lines
- Multi-frequency harmonic analysis of materials
- Instrument can be used as a stand alone unit (PC is only required to start the inspection)
- Sealed and fanless instrument for use in industrial settings

EMMA software

software

Software Interface

The heart of all SG NDT inspection instruments is our own EMMA software, having been developed through many years of continuous research and development to support the most demanding of electromagnetic inspection applications. EMMA is a powerful and intuitive software designed for use across the entire range of SG NDT electronics and supporting several electromagnetic methods.

- EMMA is your new inspection partner for Eddy Current non-destructive inspections.

LabVIEW Software Development Kit:

The LabVIEW SDK enables users to quickly and easily interface with any S2G2 device.

API Documentation:

SG NDT can provide all necessary information required to interface with the device, to program the device and acquire signals through a TCPIP link.

Quick and efficient Electromagnetic inspections

µS2G2-200i Specifications

General Specifications

Power Requirements	110V-220VAC, 50-60Hz (Auto voltage sensing)
Operating Voltage	12-15 VDC Power
Environmental	Sealed enclosure, designed for IP65
Size (external dimensions)	20.2cm x 12.2cm x 4.8cm (7.9" x 4.8" x 1.9")
Weight (excl.batteries)	1.5 Kg (3.3lb)
Computer Interface	Gigabit Ethernet-1000 BASE-T
Compliance Standards	CE, RoHS
Operating Temperature	0°C to 50°C (32°F to 122°F)
Inputs/Outputs	• RJ45 Ethernet • 19-pin Amphenol - Extended ECT Connector • 18-pin I/O Connector • 12-15VDC Power Input
Encoders	2 quadrature encoder inputs
Remote Controls	• Start/Stop • Balance • Status
Alarms	2 independent real-time alarms

Eddy Current

Frequency Range	20Hz to 6MHz
Generators / Probe Drivers	1 fully independent
Drive Voltage	0-10 Vpp (single driver)
Output Current	0.220 A max
Reference Generators	1 driver for Electronic balancing
Probe Inputs	2
Number of frequencies	Up to 5 simultaneous
Data Format	32 bits
Data rate	100,000 data points/s/ input

Are you interested in µS2G2-200i?

Our team are ready to answer your questions.

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