

Optical Sensor Analysers



Micron Optics 1~4 Channels Interrogator

The si155 is an industrial grade fan-less optical sensing interrogator. Featuring both static and dynamic full spectrum analysis, the si155 provides long-term, reliable and accurate measurements of hundreds of sensors on 4 parallel, 160nm wide channels.

Features

- Standard, High Speed and Enhanced Visibility models, each with an available depolarised source and up to 4 parallel channels
- Dynamic and absolute measurements of FBGs, LPGs, FP and MZ sensors from detailed optical spectrum
- Deep, continuous dynamic range is available to each sensor on each channel, independent of differential system losses
- Data verification key guarantees only valid output. Each data set is calibrated and verified against a permanent NIST traceable reference.
- Proven reliability and longevity of the Micron Optics swept wavelength source, with over 100 million hours logged since 2000

Applications

- Oil & gas (well reservoir management, platform structural health, pipeline condition)
- Medical devices (probes, catheters)
- Industrial measurements (industrial heaters and metal fabrication process control)
- Energy (wind turbines, oil wells, pipelines, nuclear reactors, generators)
- Structures (bridges, dams, tunnels, mines, buildings)
- Security (perimeter intrusion, heat detection, security gate monitoring)
- Aerospace (airframes, composite structures, wind tunnels, static tests)

[Data sheet](#)

Manufacturer: Micron Optics Inc.

Product Code: si155-

Product SKU: 53839000004690265

Product SKU: Sensor Interrogator, 1~4 channels, 10~5000Hz



Micron Optics 4~16 Channels Interrogator

The si255 is an industrial grade fan-less optical sensing interrogator. Featuring both static and dynamic full spectrum analysis, the si255 provides long-term, reliable and accurate measurements of nearly 1000 sensors on 16 parallel, 160 nm wide channels

Features

- Standard, High Speed and Enhanced Visibility models, each with an available depolarised source and up to 16 parallel channels
- Dynamic and absolute measurements of FBGs, LPGs, FP and MZ sensors from detailed optical spectrum
- Deep, continuous dynamic range is available to each sensor on each channel, independent of differential system losses
- Data verification key guarantees only valid output. Each data set is calibrated and verified against a permanent NIST traceable reference.
- Proven reliability and longevity of the Micron Optics swept wavelength source, with over 100 million hours logged since 2000

Applications

- Oil & gas (well reservoir management, platform structural health, pipeline condition)
- Medical devices (probes, catheters)
- Industrial measurements (industrial heaters and metal fabrication process control)
- Energy (wind turbines, oil wells, pipelines, nuclear reactors, generators)
- Structures (bridges, dams, tunnels, mines, buildings)
- Security (perimeter intrusion, heat detection, security gate monitoring)
- Aerospace (airframes, composite structures, wind tunnels, static tests)

[Data sheet](#)

Manufacturer: Micron Optics Inc.

Product Code: si255-

Product SKU: 53839000004690313

Product SKU: Sensor Interrogator



Micron Optics sm125 Sensor Interrogator

The sm125 is a compact, industrial grade, static optical sensor interrogation module, field proven for robust, reliable, and long term field operation.

Features

- Capacity of 100s of sensors resulting from multiple channels, wide wavelength range and high dynamic range. Expandable to 16 channels.
- Proven reliability and longevity with over 100 million hours logged since 2000
- Detailed optical spectrum enables versatile measurements of fibre Bragg gratings, long period gratings and Fabry-Perot sensors
- Automatic calibration with on-board NIST traceable reference

Applications

- Structures (bridges, dams, tunnels, mines, buildings, oil platforms)
- Oil & gas (well reservoir management, platform structural health, pipeline condition)
- Medical devices (probes, catheters)
- Aerospace (airframes, composite structures, wind tunnels, static tests).
- Industrial measurements (industrial heaters and metal fabrication process control)

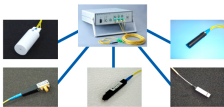
Data sheet

Manufacturer: Micron Optics Inc.

Product Code: sm125-

Product SKU: 53839000004690325

Product SKU: Sensor Interrogator, 1~4 channel, 1~10Hz,



Seikoh Giken Electro-Optic Field Sensor Analyser

Sensor analyser for Seikoh Giken Isotropic Optical E-Field Sensor, Optical RF Probe and Optical Voltage Probe Heads.

Related products:

- [Optical Electric Field Sensors](#)

Features

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Applications

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Data sheet

Manufacturer: Seikoh Giken

Product Code: C3-

Product SKU: 53839000002534043

Product SKU: Optical Sensor, electro-optic, controller



Fibre Optic Current Sensor Analyser

Optical fibre current sensor (OCS) utilising the Faraday effect enable measurement of current without affecting the signal and without being affected by the signal or electromagnetic noise.

Optical Electric Field Sensors

Optical fibre current sensor (OCS) utilising the Faraday effect enable measurement of current without affecting the signal and without being affected by the signal or electromagnetic noise.

Features

- Compact, light and easy to insulate
- Easy to install
- Immune to electromagnetic noise
- Can measure large current
- High speed response
- Long distance signal transmission

Applications

- Current measurement for underground cables, switch gear and circuit breakers
- Inverter harmonic current measurement
- Current waveform measurement for automotive motors etc.
- Waveform measurement of impulse current such as from lightning
- Superconductor current measurement

Data sheet

Manufacturer: Adamant

Product Code: AOCM-100

Product SKU: 53839000005118080

Product SKU: Sensor Analyser, Optical Current Sensor



FBGS 2 Channel FBG Measurement Device

Dynamic, precise measurement of FBG sensors. Features:

- 2 optical channels
- 40 FBG sensors per channel
- Up to 2000Hz measurement rate
- Includes Illumisense measurement software

Features

- High dynamic range
- High sampling rate
- External triggering

- High number of sensors can be connected
- Excellent wavelength precision
- Extendable with 1x8 or 1x16 optical switch supporting 1 Hz measurements

Applications

- FBG stress, strain, pressure, displacement etc. sensors

Data sheet

Manufacturer: FBGS International

Product Code: FBG-SCAN-?00

Product SKU: 53839000000924261

Product SKU: Sensor Interrogator, FBG, distributed, 1525~1565nm



FBGS 4 Channel FBG Sensor Measurement Device

The FBG-Scan 704D and 804D are dynamic, precise measurement devices for Fibre Bragg Grating (FBG) sensors based on spectrometer technology. The system offers a cost effective solution and can measure up to 4 optical channels with 40 FBG sensors per channel. All sensors can be monitored with a scan rate of 500Hz

Features

- Four individual optical lines
- High dynamic range
- High sampling rate
- External triggering
- 160 sensors can be connected
- Excellent wavelength precision

Applications

- Interrogating stress, strain, displacement, pressure etc. FBG sensors

Data sheet

Manufacturer: FBGS International

Product Code: FBG-SCAN-?04d

Product SKU: 53839000000923981

Product SKU: FBG Interrogator, dynamic, 4 channel



FBGS 8 Channel FBG Sensor Measurement Device

The FBG-Scan 708D and 808D are dynamic, precise measurement devices for Fibre Bragg Grating (FBG) sensors based on spectrometer technology. The system offers a cost effective solution and can measure

up to 8 optical channels with 40 FBG sensors per channel. All sensors can be monitored with a scan rate of 250Hz.

Features

- 8 individual optical lines
- High dynamic range
- High sampling rate
- External triggering
- 320 sensors can be connected
- Excellent wavelength precision

Applications

- Interrogating FBG strain, stress, displacement, pressure etc. sensors

Data sheet

Manufacturer: FBGS International

Product Code: FBG-SCAN-?08D

Product SKU: 53839000000923985

Product SKU: Sensor Interrogator, FBG, dynamic, 8 channel



Sylex Sensor Analysers

- FBG sensors
- 1, 4, 16 and 36 channels
- 80nm wavelength range
- Up to 1Hz sampling rate

Sylex Sentinel Software Overview Video

- FBG sensors
- 1, 4, 16 and 36 channels
- 80nm wavelength range
- Up to 1Hz sampling rate