

SERVOTOUGH SpectraScan 2400

TUNABLE FILTER INFRARED ABSORPTION ON-LINE GAS ANALYSIS PLATFORM IDEAL FOR THE MEASUREMENT OF LIGHT HYDROCARBONS



SERVOTOUGH SpectraScan 2400



The SERVOTOUGH SpectraScan is a real-time Tunable Filter Infrared analyzer capable of accurately separating light hydrocarbon components.

Using a unique wavelength scanning tunable filter spectrometer, fast update rates are performed for C1 through C5 analysis. Sampling is a continuous flow-through type, suitable for on-line, unattended operation, while the analyzer does not require carrier gas or high maintenance.

The SpectraScan utilizes a Precise optical bench which is used extensively in the field. Configurable to meet the specific needs of various applications, the SpectraScan is ATEX, CSA and IECEx hazardous rated with standard data interface using MODBUS TCP/IP.

FLEXIBLE

- C1 to C5 analysis
- Continuous, real time analysis
- Permanent span calibration
- Configurable to specific application needs

EASY TO USE

- Remote, unattended continuous operation
- Pre-configured for optimum performance

LOW COST OF OWNERSHIP

- Eliminates carrier gases and other consumables
- Fixed hardware configuration ensures low maintenance costs
- Very low zero drift, with minimal validation times

UNRIVALLED PERFORMANCE

- Low cross-sensitivity and high sensitivity
- Fast response in comparison to GC technologies
- Real-time operation <4s T_{90}

BENCHMARK COMPLIANCE

- North American Cat 1, Div 2 ATEX
Cat 3 IECEx Zone2

These analyzers are not intended for any form of use on humans and are not medical devices as described in the Medical Devices Directive 93/42EEC.

Please note: This document was updated in August 2014. While every effort has been made to ensure accuracy, no responsibility can be accepted for errors or omissions. Data may change, as well as legislation, and you are strongly advised to obtain copies of the most recently issued regulations, standards and guidelines. This document is not intended to form the basis of a contract.

**Learn more about the SpectraScan 2400
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PRODUCT OVERVIEW: SpectraScan 2400

UNRIVALLED PERFORMANCE FOR THE MOST DEMANDING O₂ PROCESS MONITORING

A real time optical analyzer utilizing the Precise field proven optical bench, the SpectraScan offers a breakthrough capability in the continuous analysis of light hydrocarbons C1-C5. A faster, less complex and more reliable technology than the gas chromatograph techniques traditionally used in light hydrocarbon applications, the SpectraScan is a genuine game-changer in gas analysis. With innovative infra red absorption spectroscopy using state of the art spectral scanning coupled with chemometric based data processing, the SpectraScan delivers exceptionally high accuracy, low cross sensitivity and a very fast speed of response.

A NO COMPROMISE SOLUTION

A flow-through cell uses a patented spectrometer design for a high quality optical measurement, resulting in a high signal-to-noise ratio which gives a stable and accurate measurement. The SpectraScan achieves a precise separation of the sample into constituent components using an advanced Tunable Filter Spectroscopy Analysis algorithm. Optimized with cross interference modeling, spectral non-linearity compensation and peak shifting compensation, this breakthrough chemometric algorithm delivers industry-leading interference compensation with a permanent span calibration, low cross-interference, high baseline stability and a linear response throughout the scanning range. Wavelength scanning is achieved by a tunable band-pass filter, with a unique design that enables simultaneous scanning of selected wavelength bands for gases including Methane, Ethane, Propane, iso-Butane, n-Butane, Propylene, Ethylene, and many more.

ALTERNATIVE PRODUCTS

Servomex offers complementary analyzer options for applications utilizing the SpectraScan's light hydrocarbon measurement.

H₂Scan



Explosion proof in-line hydrogen process analyzer provides a complementary H₂ measurement to the SpectraScan on HP applications. A solid-state, non-consumable sensor enables operation in process gas streams.

SpectraExact 2500



Real-time online Photometric gas analyzer designed for flexible single and multi-component gas analysis capability in corrosive, toxic and flammable sample streams. Ideal for process, combustion and emissions gas analysis applications.

GAS FILTER CORRELATION



INFRARED



KEY APPLICATIONS

- Natural gas quality and composition
- BTU/Wobbe content measurement
- Fuel blending and control
- Gas turbine, engines, fuel cells
- Alternative (biogas, syngas) fuels
- LNG production and custody transfer
- Hydrocarbon speciation applications

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