New Instruments and Research for Analysis

SAGITTARIUS SERIES 2000

LEL MONITORING, DETECTION OF FLAMMABLE GASES IN EXPLOSIVE ATMOSPHERES

SAGITTARIUS 2000 is the highest analytical quality solution, as a LEL monitoring system, to check the solvent concentration in evacuation from dryers, ovens and ducts, etc. developed for a wide range of (indoor and outdoor) applications.

FEATURES AND BENEFITS:

- > FITS HARSH APPLICATIONS for sample temperature up to 200°C
- > ABLE TO DETECT ANY CHEMICALS which respond to a flame
- > FLEXIBLE MOUNTING (model 2201) It can be installed nearby the sampling point of analysis
- > EXTREMELY LOW MEASURE DRIFTS a calibration check is suggested every 6 months only
- > FAST RESPONSE TIME (T90 <2s, sampling line excluded)</p>

SAGITTARIUS 2201 HT

HIGH TEMPERATURE, SINGLE LINE, FID LEL MONITORING SYSTEM FOR INDOOR AND OUTDOOR APPLICATIONS

THERMOELECTRIC COOLER

ATEX CABINET COOLER IP67 FOR APPLICATION IN POTENTIALLY EXPLOSIVE ATMOSPHERES

SAGITTARIUS 2001





SAMPLING SYSTEM AND LOOP ANALYTICAL TECHNOLOGY

Our exclusive sampling system sucks the sample gas by the usage an ejector (Venturi), completely maintenance free. The sample is constantly monitored in term of flow and vacuum to warn against any possible anomaly that may invalid the analyses results (sample loss, filter clogging, ejector air pressure drop, H2 pressure drop, etc.). After the sampling system, the sample gas is picked up through a loop, put at atmospheric pressure and pushed into the detector; this system guarantees much more stability and less maintenance than the standard continuous flow sampling systems with capillaries.

PC EMBEDDED TECHNOLOGY AND WATCH DOG SURVEILLANCE

The built in PC card controls the detector, monitors each analyzer working phase and records any possible anomaly that may occur. Every alarms of solvent concentration or of diagnostic open the digital contacts wired to the plant monitoring. A built-in watch dog system resets the power supply in case of PC freezing or system malfunctions.

FID DETECTOR PRECISION AND THE HYDROGEN MANAGEMENT

The FID detector (Explosion-proof), with conveyed discharge, is developed for unattended industrial usage and guarantees all the analytical capacities of a lab Gas Chromatograph. It's able to detect very low solvents concentration down to ppb. The flame combustion gas (hydrogen) essential for any kind of FID, is safely managed with a continuous flame monitoring. A leak sensor stops the hydrogen flow in case of any anomaly occurs.

REFERENCE NORMATIVE

- Compliant with EN1539:2015
- Compliant with EN60079-29-1

TECHNICAL CHARACTERISTICS

Detector type Maximum number of the sampling gas lines Range Lower detectable level Stability Accuracy Sample flow speed **Response time (T90)** High sample gas temperature Analogical outputs Communication (Option) Power supply Hydrogen requirements Compressed air characteristics Working temperature Dimensions and weight (for model 2201) Working temperature (rack assembly) Dimensions and weight (for model 2001)

Flame Ionization Detector (Ex-Proof). from 1 to 4 analytical lines. 0÷100 %LEL or g/Nm³. 0.1% f.s. <1% f.s. <1% f.s. 2,5 lt/min. 2 s/line (sampling line excluded). Up to 200°C (with heated sampling lines). 4-20mA or 0-10Volt. Modbus or Profinet. 230Vca or 115Vca (option). 99.995%(4.5grade), 2 bars, 40ml/min. Oil and humidity free, at 5 bar, 4m³/h. 5+40°C 600x550x600h mm / 50 kg. -10°C +50°C (with thermoelectric cooler) 2000x800x800h mm / 220 kg.

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