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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

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 (2001 HT)

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

300x600x400h mm / 35 kg.

-10°C +50°C

2000x800x800h mm / 220 kg.