



## **STANDARD SPECIFICATIONS**

- Measuring principles	: Conversion of sulphur compounds in sulphur dioxide (oxidation in presence of oxygen). Detection of the resulting SO <sub>2</sub> by U.V. fluorescence.
- Applications	: For gaseous hydrocarbons.
- Measuring methods	: ASTM D 6667.
- Detector	: U.V. lamp/photomultiplier.
- Electronic	: Fully microprocessed.
- Range unit	: PPM by volume - others on request.
- Measuring rangeability	: 0-1 PPM-V up to 0-2000 PPM-V. Above on request.
- Minimum detectable	: 50 PPB-V.
- Sensitivity	: 0.5% of the concerned range.
- Response time	: Between 30 and 60s 90% of scale, depending on the application and range.
- Linearity	: ± 1.5% of the calibration full scale (2 λ).
- Repeatability	: ± 1.5% of the calibration full scale (2 λ).
- Accuracy	: ± 1.5% of the calibration full scale (2 λ).
- Zero drift	: Automatically compensated.
- Span drift	: Automatically compensated.
- Calibration	: Automatic, with ability for DCS to force on Autocal (optional).
- Calibration system	: Internal or external – optional.
- Process alarm	: 1 programmable with the built-in keyboard potential free relay contacts 5 A, 220 V in normally open status (normally closed on request). - Relay coil normally not energised or energised - <b>to be stated</b> .
- Fail alarm	: 1 programmable, potential free relay contacts 5 A, 220 V in N.O. status (N.C. on request). Relay coil normally energised (as standard)..
- Power supply	: 110/240 VAC ±10 % - 50/60 Hz - <b>to be stated</b> .
- Power consumption	: 1,500 VA on 230 VAC.
- RFI protection	: IEC 8013 Level 3 (CE Mark).
- Analog output	: 4-20 mA, self powered, isolated, 600 Ohms maximum load. Up to 4 x 4-20 mA available (optional).
- Digital output	: RS 232 or RS 485 - <b>to be stated</b> .
- Communication link	: Ethernet with embedded software (optional).
- Keyboard	: Optical, 16 keys, TOUCHSENSE™ type.
- Video display	: Back-lit, top-biased LCD, 4 lines of 20 characters each.
- Sample inlet pressure	: 2 up to 10 bar.
- Primary sample fast loop flow rate	: 0 – 10 l/min, depending on the application.
- Secondary sample fast loop flow rate	: 100 – 500 cc/min.
- Sample injection system	: Digital mass flow controller, remotely adjustable, indicated on the video display.
- Sample injection flow rate	: 20 – 200ml/min, depending on the application.
- Instrument air quality	: Standard instrument air, oil and sulphur free, dew point – 20°C.
- Instrument Air inlet pressure	: 5 - 10 bar , stability ± 1 bar.
- Instrument Air flow rate	: 7 – 12 l/min (Total flow).
- Instrument air cleaning system	: Optional, self regenerating. Dew point -50°C, sulphur 10 PPB with 10 PPM inlet. Hydrocarbons 1 PPM with 100 PPM inlet.
- Conversion / dilution air flow rate	: 1.5 up to 2 l/min (from the instrument air cleaning system).
- Conversion / dilution air flow path	: Fully digital. Remotely adjustable. Indicated on the video display.
- Conversion furnace	: Coiled type. Maximum temperature 1200°C. Remotely adjustable. Temperature is depending on the application. The temperature is indicated on the video display.
- Reaction tube	: Quartz (ceramic for applications above 1100°C).
- Instrument air flow alarm	: Included with a shut off valve on the sample line to stop the sample flow in case of air fail.
- Sample vent	: To atmosphere. Stable back pressure allowed, maximum 0.5 bar.
- Area classification	: General purpose for FG 1000, FG 2000. Ex proof ATEX certified for FG 4000.
- Analyser free standing frame	: In 316 S.S
- Ambient working temperature	: +10°C up to +40°C. ±2°C stability required for optimal performances. (0.1% drift per °C).
- Storage temperature	: -10°C up to +55°C, 0 - 95 % R.H non condensing.
- Material	: Stainless steel, Teflon. All components in contact with the sample are compatible with sulphur.
-Fluidic connections	: 1/4" NPT Female bulkhead unions.

*In our continuing research and development, we reserve the right to make any model revisions and specification changes without prior notice*

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