Hydrogen Fluoride Analyzer

The HF analyzer provides sensitive monitoring of HF in ambient air or industrial process with extreme high selectivity and sensitivity.

The instrument is based on off-axis cavity enhanced laser absorption spectroscopic technique providing high quality, interference free HF measurements as required for the most demanding industrial trace gas detection applications. The HF analyzer operates continuously and performs unattended on-line monitoring, without the need for wet chemicals. With integrated electronics and software and no moving parts or optics that require realignment, the analyzer requires virtually no maintenance. The internal computer can store large amounts of data and can be accessed remotely via USB or internet connection.

Performance

Detected gas	Hydrogen fluoride (HF)
Measurement technique	Direct absorption, inline continuous measurements
Measurement range	0-10 ppmv
Noise level	2 ppbv / 0.5 ppbv
Measurement time	3 seconds / 60 seconds
Stability	<1 % of value or 2 ppb over 24 hours, whichever is larger
Response time	<30 minutes
Flow	Max 5 - 150 l/h (depends on pump)
Operating temperature	10 - 30 °C

Technical characteristics

Dimensions	50x45x14cm (LxWxH)
Weight	15 kg
Humidity	0 - 95 % (non-condensing)
Fittings	1/8" Swagelok

Interface

Outputs	Analog: 4-20 mA and 0-5 V Digital: RS-232, Ethernet, USB, 5x user configurable (5 V)
File format	.CSV
User interface	6.5" touchscreen, web-based user interface

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