



CMM AutoQAL

Gasmeter CMM AutoQAL is a fully automated EN 15267 certified solution for continuous mercury monitoring including automatic QAL3 validation tool for HgCl_2 span check according to EN14181

System specifications

Measuring principle	Cold vapor atomic fluorescence (CVAF) with extractive filtration, dilution and thermal conversion
Measuring range	Minimum certified range 0 - 5 µg/m ³ Maximum certified range 0 - 1000 µg/m ³
Detection limit	0.02 µg/m ³ , total Hg with complete system
Power supply	Standard version: 400 VAC, 3 x L+N+PE 3 x 16 A (2 - 14 m sample line) 3 x 32 A (15 - 30 m sample line) Power consumption ~ 8kW with 25 m line US version: 200 VAC, 3 x L+N+PE
Response time	Typically < 120 s
Drift	< 2 % of measuring range per 24 hours calibration interval (zero point, span calibration and linearity)
Sampling probe	Heated probe with particle filter, flow monitoring and sample dilution
Test Gas Generator for Hg⁰	Vapor generation from saturated source and dilution Zero-point calibration interval: 24 hours (adjustable) Hg ⁰ -span calibration interval: 24 hours (adjustable)
QAL3 validation tool	Automatic HgCl ₂ test gas generator. Validation interval 4 weeks.
Heated sample line length	Standard 230 V version: 2 - 35 m (according to site) US 115 V version: 2 - 14 m (according to site)
Input signals	External standby control
Output signals	5 device status contacts: System alarm, service request, maintenance status, result valid and concentration alarm 4 analog signals (4 - 20 mA) for measurement data
Enclosure	Dimensions (H x W x D): Control unit 212 x 61 x 70 cm (cooling unit on top) Material: Bake painted steel IP class: IP54
Weight	Sampling probe approximately 27 kg Cabinet approximately 230 kg

Sample gas conditions

Sample gas temperature	Up to 400 °C (max in stack)
Sample gas pressure	0.9 – 1.2 bars (in stack)
Sample gas dust content	0 – 2g/m ³

Operating conditions

Control unit ambient temperature	5 – 40 °C
Sampling probe ambient temperature	-20 – 50 °C
Instrument air requirements	Quality 6 - 10 bar, oil free, dew point < -5 °C
	Consumption 60 l/min

Gasmeter Technologies Oy shall not be liable for technical or editorial errors or omissions contained herein. The information in this document is provided "as is" without warranty of any kind and is subject to change without notice. Should you find any errors, we would appreciate if you notified us.