



## CMM AutoQAL

Gasmeter CMM AutoQAL is a fully automated EN 15267 certified solution for continuous mercury monitoring including automatic QAL3 validation tool for  $\text{HgCl}_2$  span check according to EN14181

MCERTS pending

## System specifications

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

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## Sample gas conditions

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

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## Operating conditions

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

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