

# OMA Chlorine Analyzer

Safe & automated chlorine analysis.

- » UV-Vis full-spectrum spectrophotometer
- » Solid state with no moving parts
- » Analyzes liquid or gas stream
- » Measures up to 4 additional stream components, including:  $FeCl_3$ ,  $NCl_3$ ,  $V^{2+}$ ,  $TiCl_4$ ,  $ClO_2$ , and more
- » Fiber optic cables transmit signal to/from sample
- » Xenon light source with 5 years average lifespan
- » Huge dynamic range should be modified from 0-10ppm to 0-100ppm



Multi-Component Measurement:



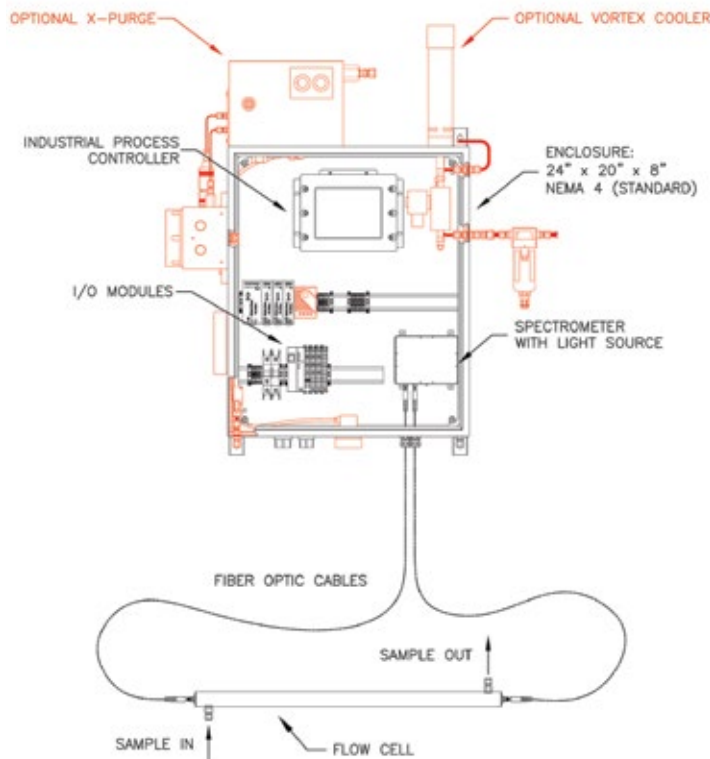
Up to 4 additional components

# OMA-300 Chlorine Analyzer Specifications

**Note:** All performance specifications herein are subject to the assumption that all design for integration and sample conditioning is first approved by Applied Analytics.

Detection Method	nova-II™ UV-Vis diode array spectrophotometer
Light Source	Pulsed Xe lamp (average 5 year lifespan)
Fiber Optic Cables	Standard: 1.8 meter 600 μm core fibers (qty=2) <i>Longer lengths available.</i>
Sample Phase	Gas or liquid
Sample Cell	<i>Other materials available.</i> Standard: Hastelloy C-276 flow cell
Sample Conditioning	Custom design if necessary
Accuracy (by Range)	Common ranges below; custom ranges available. <b>chlorine</b> 0-100 ppm: ±5 ppm 0-10,000 ppm: ±2% full scale or 5 ppm, whichever larger 0-100%: ±2% full scale
Analyzer Calibration	If possible, analyzer is factory calibrated with certified calibration fluids; no re-calibration required after initial calibration; measurement normalized by Auto Zero
Verification	Simple verification with samples and self-check diagnostic
Ambient Temperature	Standard: 0 to 35 °C (32 to 95 °F) Optional: -20 to 55 °C (-4 to 131 °F) To avoid radiational heating, use of a sunshade is recommended for systems installed in direct sunlight.
Sample Temperature (max.)	Standard: -20 to 70 °C (-4 to 158 °F) Optional: up to 150 °C (302 °F) with cooling extensions Contact AAI for temperatures above 150 °C (302°F)
Sample Pressure (max.)	Using standard flow cell: 206 bar (3000 psi) Using immersion probe: 100 bar (1470 psig)
Electrical Requirements	85 to 264 VAC 47 to 63 Hz
Power Consumption	45 Watts
Environment	Indoor/Outdoor — no shelter required
Human Machine Interface	Industrial controller with touch-screen LCD display
Standard Outputs	1 galvanically isolated 4-20mA output per measurement 2 digital outputs for fault and SCS control
Optional Outputs	Modbus TCP/IP; RS-232; Fieldbus; Profibus; HART;
Certifications	Standard: General Purpose Available Options: ATEX, IECEx, EAC <i>Please inquire with your sales representative for additional certifications (CSA, FM etc.).</i>

OMA-300 Analyzer  
(common options shown in red color)



Weight	Analyzer: 32 lbs. (15 kg) Optional Sample Conditioning System: variable
Size	Analyzer: 24" H x 20" W x 8" D (610 x 508 x 203 mm) Optional Sample Conditioning System: variable
Enclosure	<i>Various enclosures available.</i> Standard: wall-mounted carbon steel NEMA 4 enclosure
Wetted Materials	<i>Various custom materials available.</i> Standard: K7 glass, Kalrez, Teflon, Hastelloy C-276

MADE IN THE USA

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