TRUSTED CHLORINE MEASUREMENT FROM **APPLIED ANALYTICS™**

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
- Zero cross-interference from other chemicals
- Fiber optic cables transmit signal to/from sample
- Xenon light source with 5 years average lifespan
- Huge dynamic range — 0-10 ppm and 0-100% all in one instrument

Multi-Component Measurement:

Cl_2				

Up to 4 additional software benches

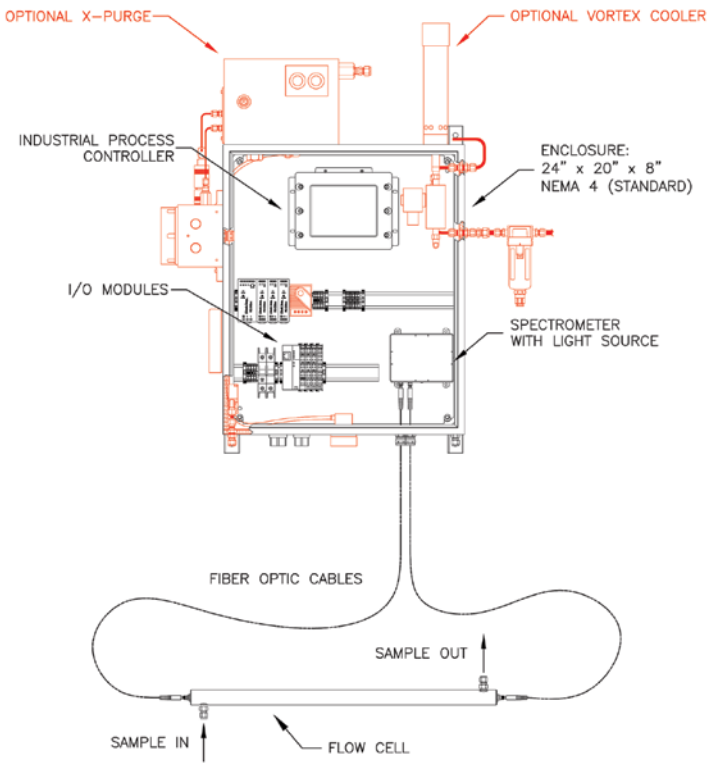
OMA-300 Chlorine Analyzer Specifications

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) *Longer lengths available.*
Sample Phase	Gas or liquid
Sample Cell	*Other materials available.* Standard: Hastelloy C-276 flow cell
Sample Conditioning	Custom design if necessary
Accuracy (by Range)	Common ranges below; custom ranges available. **chlorine** 0-100 ppm: ±5 ppm 0-10,000 ppm: ±2% full scale or 5 ppm, whichever larger 0-100%: ±2% full scale
Analyzer Calibration	Calibrated at factory or site with certified calibration gases/liquids (never requires re-calibration)
Verification	Simple verification with samples or neutral density filters
Ambient Temperature	Low Range (<1000 ppm): 0 to 40 °C (32 to 104 °F) High Range (>1000 ppm): 0 to 55 °C (32 to 131 °F) w/ Temperature Control: -20 to 55 °C (-4 to 131 °F)
Sample Temperature (max.)	Using in situ probe: -20 to 200 °C (-4 to 392 °F) Using standard flow cell: -20 to 150 °C (-4 to 302 °F) *Wider ranges available.*
Sample Pressure (max.)	Using standard flow cell: 206 bar (3,000 psi)
Electrical Requirements	85 to 264 VAC 47 to 63 Hz
Power Consumption	45 Watts
Environment	Indoor/Outdoor — no shelter required
Human Machine Interface	Touch-screen industrial controller with 640x480 LCD
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	General Purpose Class I, Division 1 — *optional* Class I, Division 2 — *optional* ATEX Exp II 2(2) GD — *optional* Any other certification — *please inquire*

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	*Various enclosures available.* Standard: wall-mounted carbon steel NEMA 4 enclosure
Wetted Materials	*Various custom materials available.* Standard: K7 glass, Kalrez, Teflon, Hastelloy C-276

MADE IN THE USA

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APPLIED ANALYTICS™

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Headquarters + Manufacturing
Applied Analytics, Inc.
Burlington, MA, USA | sales@a-a-inc.com

North America Sales
Applied Analytics North America, Ltd.
Houston, TX, USA | sales@appliedanalytics.us

Europe Sales
Applied Analytics Europe, SpA
Milan, Italy | sales@appliedanalytics.eu

Asia Pacific Sales
Applied Analytics Asia Pte. Ltd.
Singapore | sales@appliedanalytics.com.sg

Middle East Sales
Applied Analytics Middle East (FZE)
Sharjah, UAE | sales@appliedanalytics.ae

India Sales
Applied Analytics (India) Pte. Ltd.
Mumbai, India | sales@appliedanalytics.in

Brazil Sales
Applied Analytics do Brasil
Rio de Janeiro, Brazil | sales@aadbl.com.br