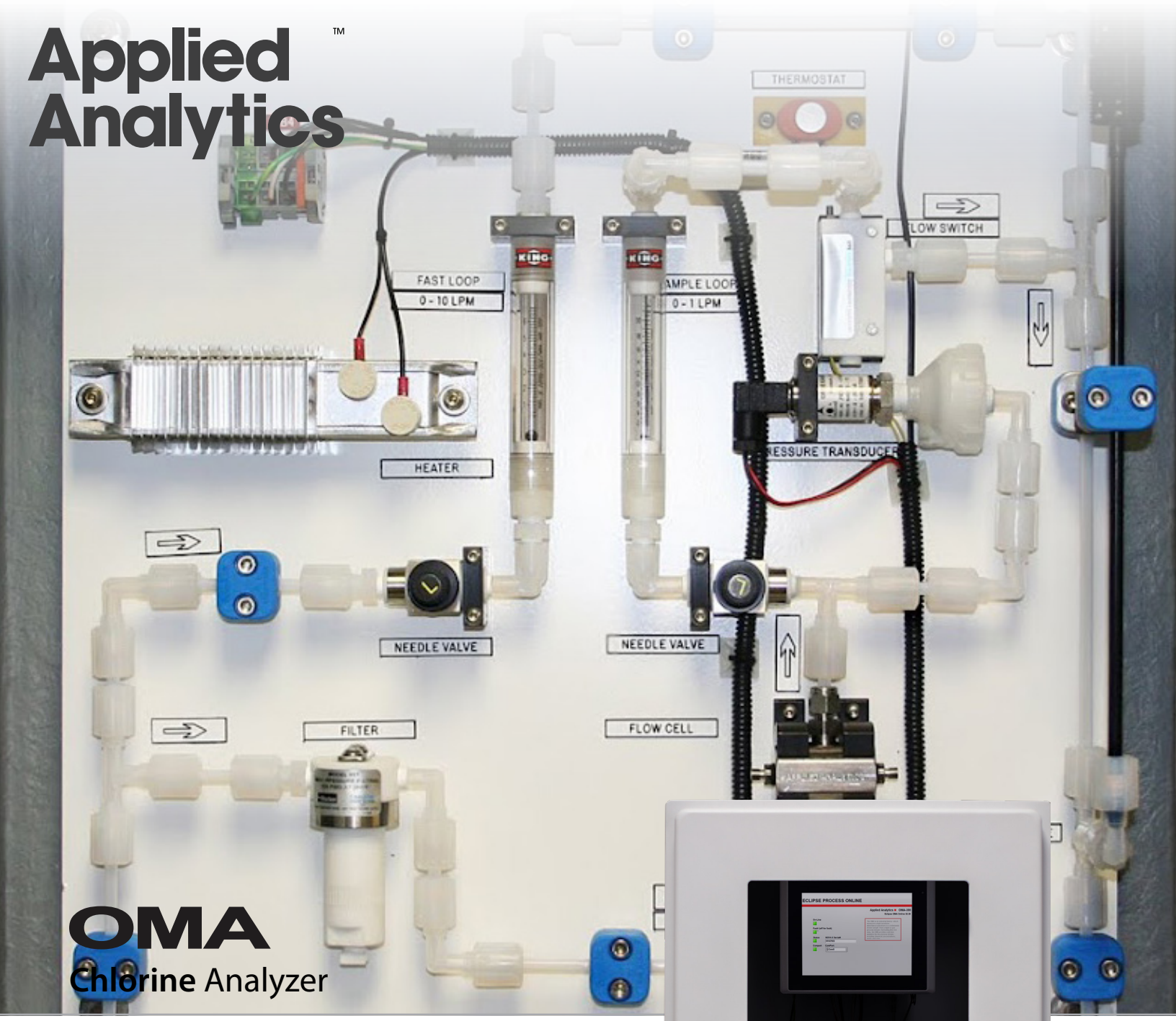
Applied Analytics™



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
- » 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:

Cl_2				

Up to 4 additional components

TRUSTED CHLORINE MEASUREMENT FROM **APPLIED ANALYTICS™**

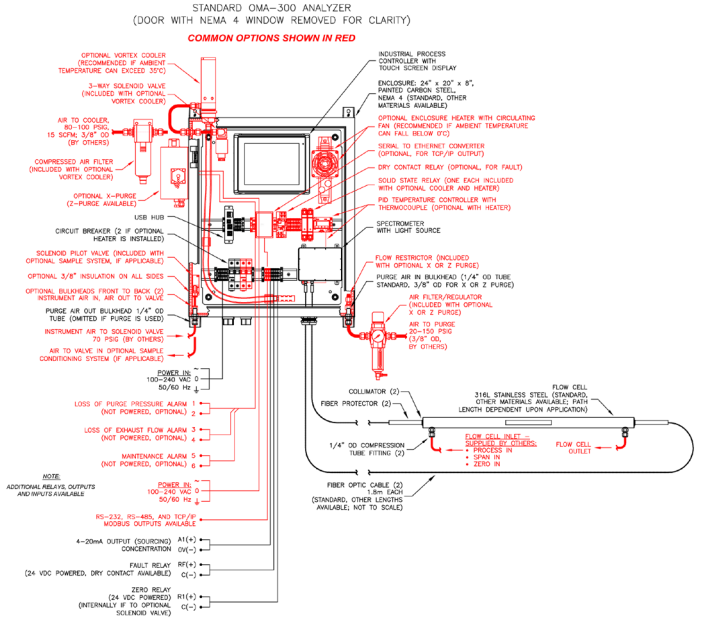
OMA-300 Chlorine Analyzer Specifications

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	Standard: SS316 Options: Hastelloy C276, Monel 400
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	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)
Electrical Requirements	85 to 264 VAC 47 to 63 Hz
Power Consumption	45 Watts
Environment	Indoor/Outdoor — no shelter required *To avoid radiational heating, use of a sunshade is recommended for systems installed in direct sunlight.*
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; HART;
Certifications	Standard: General Purpose Available Options: ATEX, IECEx, EAC, PESO, JPN *Please inquire with your sales representative for additional certifications (CSA, FM etc.).*

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: Fused silica, FKM and SS316 Optional: Sapphire, FFKM, Hastelloy C276, Monel 400

MADE IN THE USA

Headquarters
Applied Analytics, Inc.
Burlington, MA, USA | sales@aai.solutions

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

Europe Sales
Applied Analytics Europe, AG
Genève, Switzerland | sales@appliedanalytics.eu

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

Middle East Sales
Applied Analytics Oil & Gas Operations, L.L.C.
sales@appliedanalytics.ae

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

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

China Sales
Applied Analytics China Limited
sales@appliedanalytics.cn