Process Insights
Premium Insights Into Process

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REAL-TIME
GAS ANALYZERS

PRODUCT DATASHEET

MAX300-RTG™ 2.0

Real-time Gas Analyzer with Touch Screen Interface

Continuous, real-time analysis

Full, speciated composition

High sensitivity and wide dynamic range

- Fast analysis for advanced process control, environmental compliance, and life safety monitoring
- Complete quantitative stream composition: total application coverage with fewer analyzers required
- Multi-port stream selector for up to 160+ samples
- Low maintenance and easy to operate with simple touch screen interface
- Industry-best customer support and application team

SPECIFICATIONS

System Highlights:	
Detectable compounds	Any gas or vapor sample
Integrated touch screen	15" display Customizable and interactive Full Access to Questor5 software
Detection range	– Faraday detector: 100% – 5 ppm – Electron multiplier: 100% – 5 ppb* – Membrane inlet: 100% – 10 ppt*
Number of sample streams	16, 31, 40, 80, 120, 160+
Analysis rate	0.1 – 16 seconds per component Customizable
Number of components	Unlimited
Number of analysis routines	Unlimited
Number of user configurable data tags	Unlimited
Precision	<0.05% RSD over 24 hours**
Stability	<0.5% RSD over 30 days**
Filaments	Two, one active and one spare with automatic switchover
Analyzer maintenance	1-3 years†
Roughing pump	6-12 months†
Manual or fully automated calibration and validation	3-12 month calibration intervals
Mass range options	1 to 250, 300, or 500 amu
Mass filter	19mm quadrupole for high precision, sensitivity and stability

* Matrix dependent. Documented on trace air components and benzene.

** Based on the analysis of 1% argon, scan speed 1 second per analysis.

† Application dependent.

MAX300-RTG System Specifications

Power Supply Options:
- 115 VAC (+/- 10%), 50/60 Hz, Two 20 Amp Circuits
- 230 VAC (+/- 10%), 50/60 Hz, One 20 Amp Circuit

Power Consumption:
- Nominal 2740 Watts
- Heat Load: 2991 Watts (10,200 BTU/hour)

Weight:
- Standard Enclosure: 450 lbs (205 kg)*
- Optional cart: 40 lbs (18 kg)

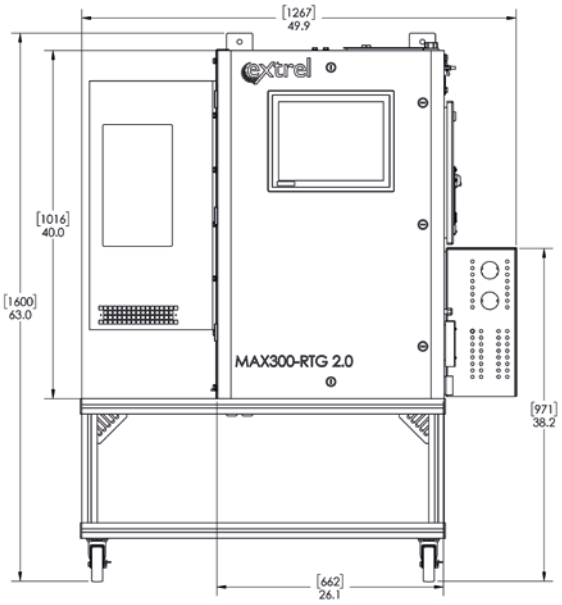
Ambient Requirements:
- Temperature: -4°F to 120°F (-20°C to 49°C)
- With A/C, cold start ≥54°F (12°C)

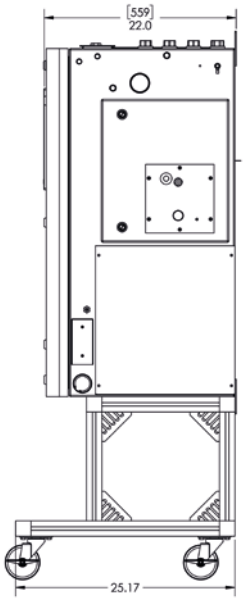
Area Classification Options:
- General Purpose
- Class 1, Division 2, Groups A,B,C,D, T4 or T3
- IEC/ATEX, Zone 2, Group IIC or IIB +H2*, T3 or T4

Additional Utilities:
- Purge gas (for hazardous area installations)
- Calibration gas cylinders: minimum 2*

Data System and Communications:
- External Control Interface: Modbus (TCP/IP, Fiber Optics, Serial) or Analog Input
- Login security levels: Administrator, User, Viewer
- External Communications: Modbus (TCP/IP or Serial), Analog and Digital I/Os, Fiber Optics

*Configuration dependent





MAX300-RTG 2.0 enclosure with Cart.
Dimensions shown in inches [mm]

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CENTERS OF EXCELLENCE

Process Insights – The Americas
14400 Hollister Street, Suite 800-B, Houston, TX 77066, USA
☎ +1 713 947 9591
info.americas@process-insights.com

Process Insights – EMEAI
ATRICOM, Lyonerstrasse 15, 60528 Frankfurt, Germany
☎ +49 69 20436910
info.emeai@process-insights.com

Process Insights – CHINA
Wujiang Economic and Technology, Development ZoneNo. 258 Yi He Road
215200 Suzhou, Jiangsu Province, China
☎ +86 400 086 01
info.cn@process-insights.com

Process Insights – APAC
Premier@Kaki Bukit, 10 Kaki Bukit Ave 4, Blk 10 #05-65, Singapore 415874
☎ +65 6489 6612
info.apac@process-insights.com

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