

PRODUCT DATASHEET

MAX300-RTG™ 2.0

Real-time Gas Analyzer with Touch Screen Interface

NEW



**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

GAIN REAL-TIME INSIGHT INTO YOUR PROCESS

Process Insights manufactures and delivers premium sensors, monitors, detectors, analyzers, instrumentation, and software that are mission-critical to keep your operations, personnel, and the environment safe – every day across the globe.

Get the most reliable, precision analytical technologies available on the market today. We will work to match your needs and budget, and provide the optimal, and most stable process analysis solution for your application.

CENTERS OF EXCELLENCE | PROVIDING PROVEN SOLUTIONS

Process Insights is committed to solving our customers' most complex analytical, process, and measurement challenges everyday.

Process Insights – The Americas

4140 World Houston Parkway Suite 180, Houston, TX 77032, USA +1 713 947 9591

Process Insights – EMEA

ATRICOM, Lyoner Strasse 15, 60528 Frankfurt, Germany +49 69 20436910

Process Insights – APAC

Wujiang Economic and Technology, Development Zone, No. 258 Yi He Road, 215200 Suzhou, Jiangsu Province, China +86 400 086 0106

For a complete range of products, applications, systems, and service options, please contact us at: info@process-insights.com

For a complete list of sales & manufacturing sites, please visit: <https://www.process-insights.com/about-us/locations/>

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REVOLUTIONIZING MEASUREMENT

EVERYWHERE

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-AIR 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 $\geq 54^\circ\text{F}$ (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

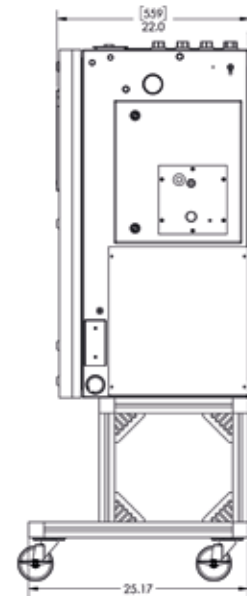
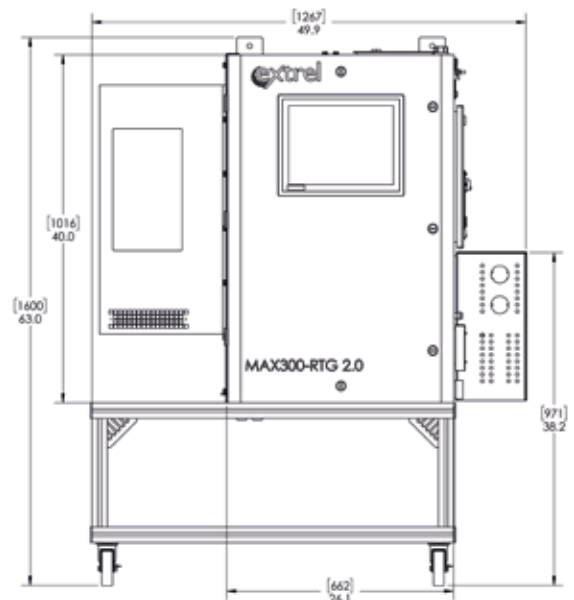
Additional Utilities:

- 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]

Exceptional Worldwide Service and Support

For over 50 years, we have been committed to providing the highest quality support services for the thousands of instruments installed worldwide. Factory trained and certified personnel offer industry-leading support to our customers at every stage of process development and manufacturing.