

**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

# 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

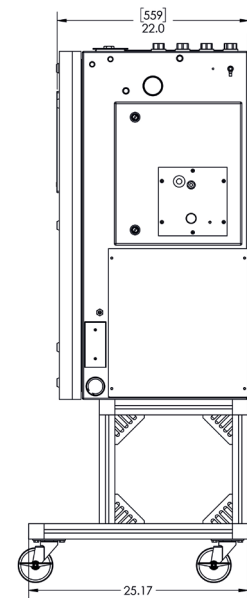
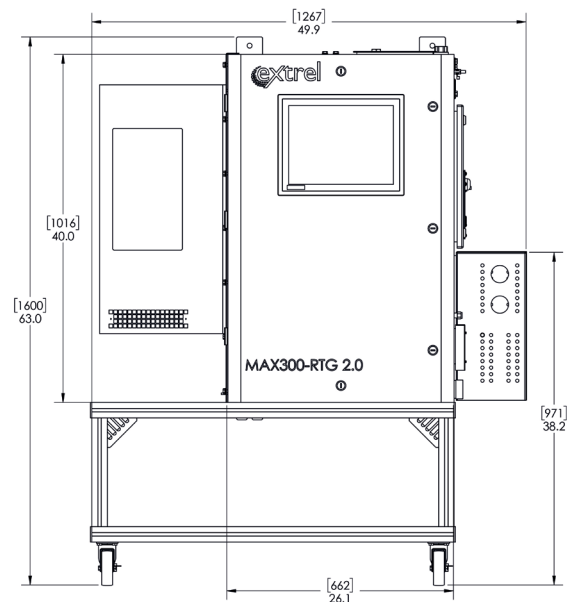
## Additional Utilities:

- 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.

## SPECIFICATIONS

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

## GAIN REAL-TIME INSIGHT INTO YOUR PROCESS

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

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REVOLUTIONIZING MEASUREMENT

**EVERYWHERE**