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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

PRODUCT DATASHEET

MAX300-RTG™

REAL-TIME Gas Analyzer



**Continuous,
real-time analysis**

**Full, speciated
composition**

**High sensitivity
and wide
dynamic range**

- Fast analysis for better process control and increased manufacturing production
- 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
- Unparalleled customer service and support

SPECIFICATIONS

System Highlights:	
Detectable compounds	Any gas or vapor sample
Detection range	<ul style="list-style-type: none"> - 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 - User selectable
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	1-250, 300, 500 amu
19 mm High-transmission quadrupole filter	

* 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:

- 110 VAC, 50/60 Hz, Two 15 Amp circuits
- 230 VAC, 50/60 Hz, One 20 Amp circuit

Power Consumption:

- Nominal 2740 Watts
- Heat Load: 2700 Watts (9215 BTU/h)

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 1 or 2, Groups A*,B,C,D, T4 or T3
 - IEC/ATEX, Zone 1 or 2, Group IIC or IIB +H2*, T4 or T3

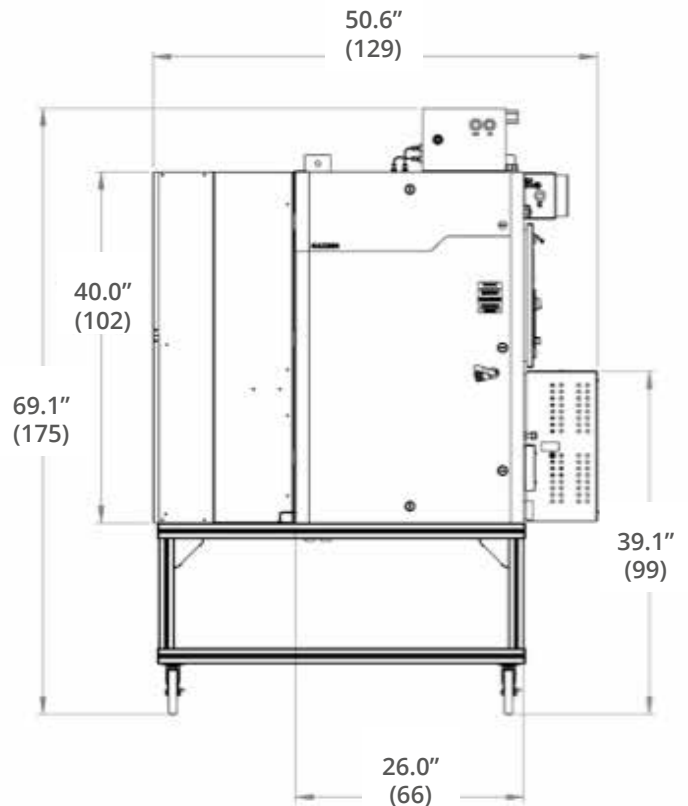
Additional Utilities:

- Purge gas (for hazardous area installations)
- Base calibration requirement: 2 gas bottles

Data System and Communications:

- System control interface options: Ethernet, RS-422 4-wire
- Login security levels: Administrator, User, Viewer
- External communications: – Ethernet, Modbus serial, digital I/O, analog I/O, OPC

*Configuration dependent



MAX300-RTG enclosure with A/C, Cart and X Purge Options. Dimensions shown in inches [cm]

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.