

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:	<ul style="list-style-type: none">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 B, C, D, T4
 - IEC/ATEX, Zone 1 or 2, Group IIC or IIB +H2*, T4

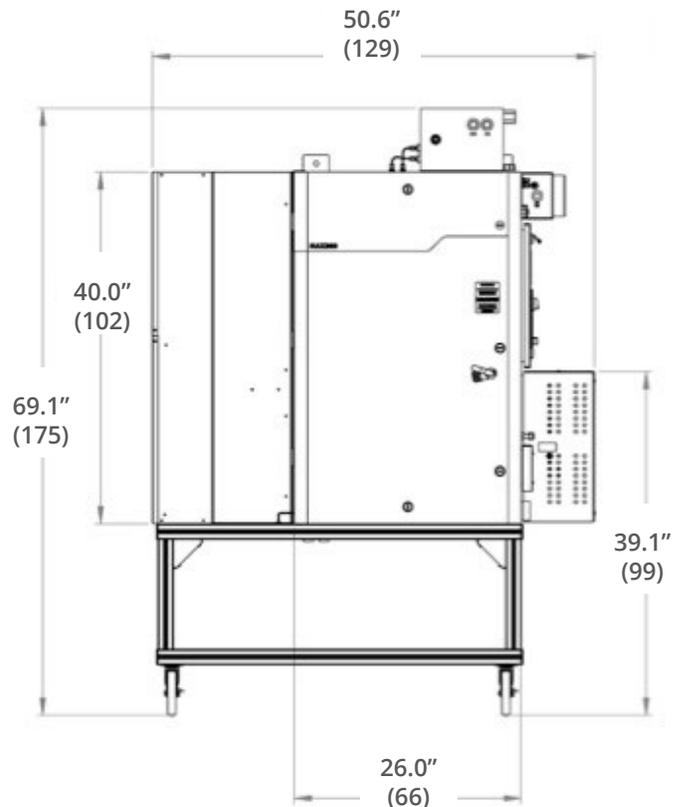
Additional Utilities:

- 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]

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