

**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

<b>Detectable compounds:</b>	Any gas or vapor sample
<b>Detection range:</b>	<ul style="list-style-type: none"><li>- Faraday detector: 100% – 5 ppm</li><li>- Electron multiplier: 100% – 5 ppb*</li><li>- Membrane inlet: 100% – 10 ppt*</li></ul>
<b>Number of sample streams:</b>	16, 31, 40, 80, 120, 160+
<b>Analysis rate:</b>	0.1 – 16 seconds per component - User selectable
<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>	1-250, 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

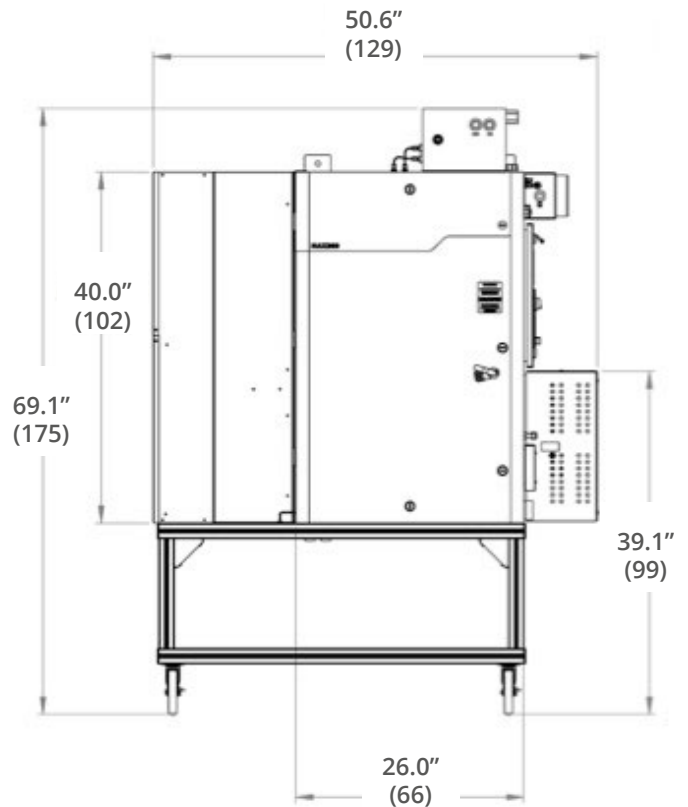
## Additional Utilities:

- 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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