

PRODUCT DATASHEET

MAX300-LG™

Laboratory Gas Analyzer



Fast Response

Process Control

**Stable
Measurement**

- Real-Time Gas Analysis
- Catalysis Monitoring
- Trace Gas Detection
- Environmental Research
- Multipoint Process Control

SPECIFICATIONS

System Highlights:	
Detectable compounds	Any gas or vapor sample
Detection range	– Faraday detector: 100% – 5 ppm – Electron multiplier: 100% – 5 ppb* – Membrane inlet: 100% – 10 ppt*
Analysis rate	0.005 – 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**
Ionization energy control for reduced fragmentation	
Automated detector switching within a single scan	
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 with no recalibration or intervention of any kind.

[†] Application dependent.

MAX300-LG System Specifications

Power Supply Options:

- 110 vAC +/- 10% vAC 50/60 hz, 10 Amp Circuit
- 230 vAC +/- 10% vAC 50/60 hz, 10 Amp Circuit

Power Consumption:

- Nominal 700 Watts

Weight:

- Approximately 165 lbs (75 kg)
- Optional cart: 40 lbs (18 kg)

Ambient Requirements:

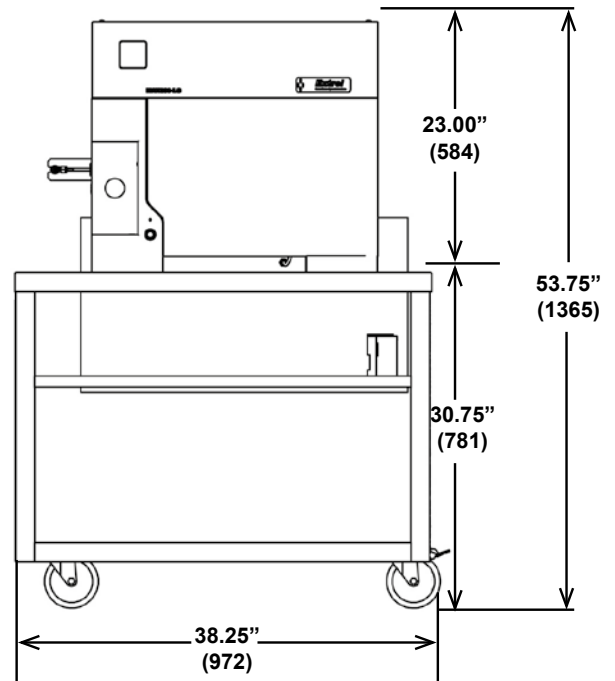
- 55°F to 80°F (13°C to 27°C)
- Area Classification: General Purpose

Relative Humidity:

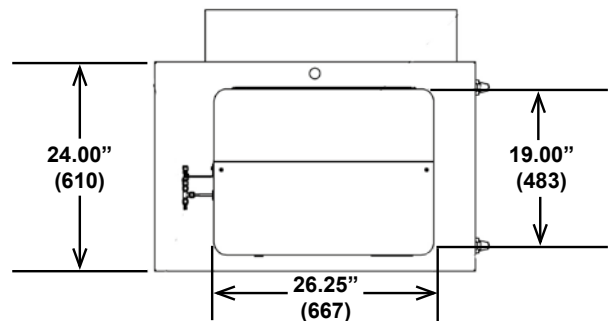
- 0-90% non-condensing

Data System and Communications:

- System control interface options: Ethernet or USB
- Login security levels: Administrator, User, Viewer
- External communications: Ethernet, Modbus serial, digital I/O, analog I/O, OPC



MAX300-LG enclosure with cart



MAX300-LG enclosure with cart top view.

Dimensions shown in inches [cm]

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