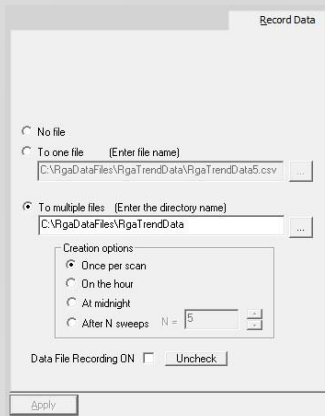


XT Series Residual Gas Analyzers



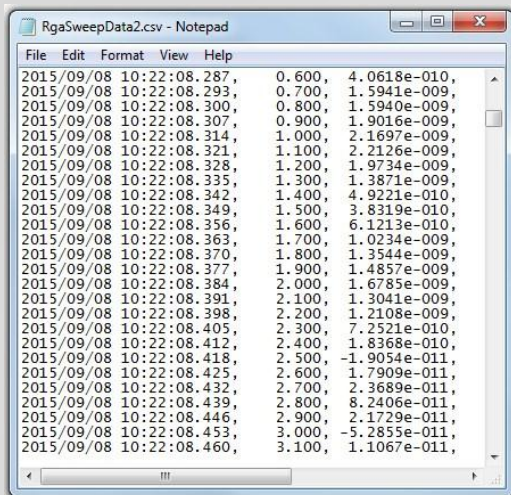
Data Logging

Data files can be saved in a Comma Separated Values (CSV) format for easy transfer to other programs. The CSV file contains plain text ASCII character fields for the Date and Time, the Mass number, and the Intensity. Data can be saved to a single file or in multiple files. The creation options for multiple files include Once per scan, On the hour, At midnight, or After N scans.



Record Data Tab

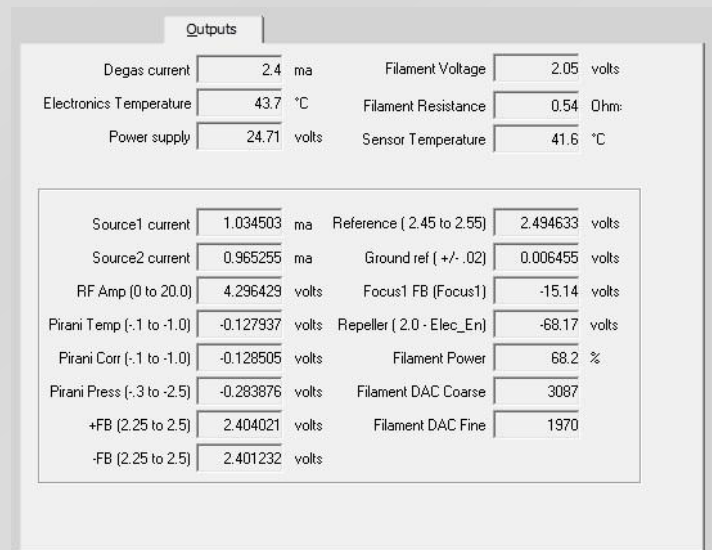
The data logging files can be saved in any local or shared network folder and the CSV files may be viewed or modified in any text editor.



CSV File Date and Time, Mass Number and Intensity Values

Diagnostic Outputs

Although the XT Series is designed for reliable operation, useful diagnostic information is available at the click of the mouse. The Outputs tab shows real-time measurements of the filament voltage, emission current, electronics temperature, and much more. This information will quickly tell you of a filament problem or shorted probe.

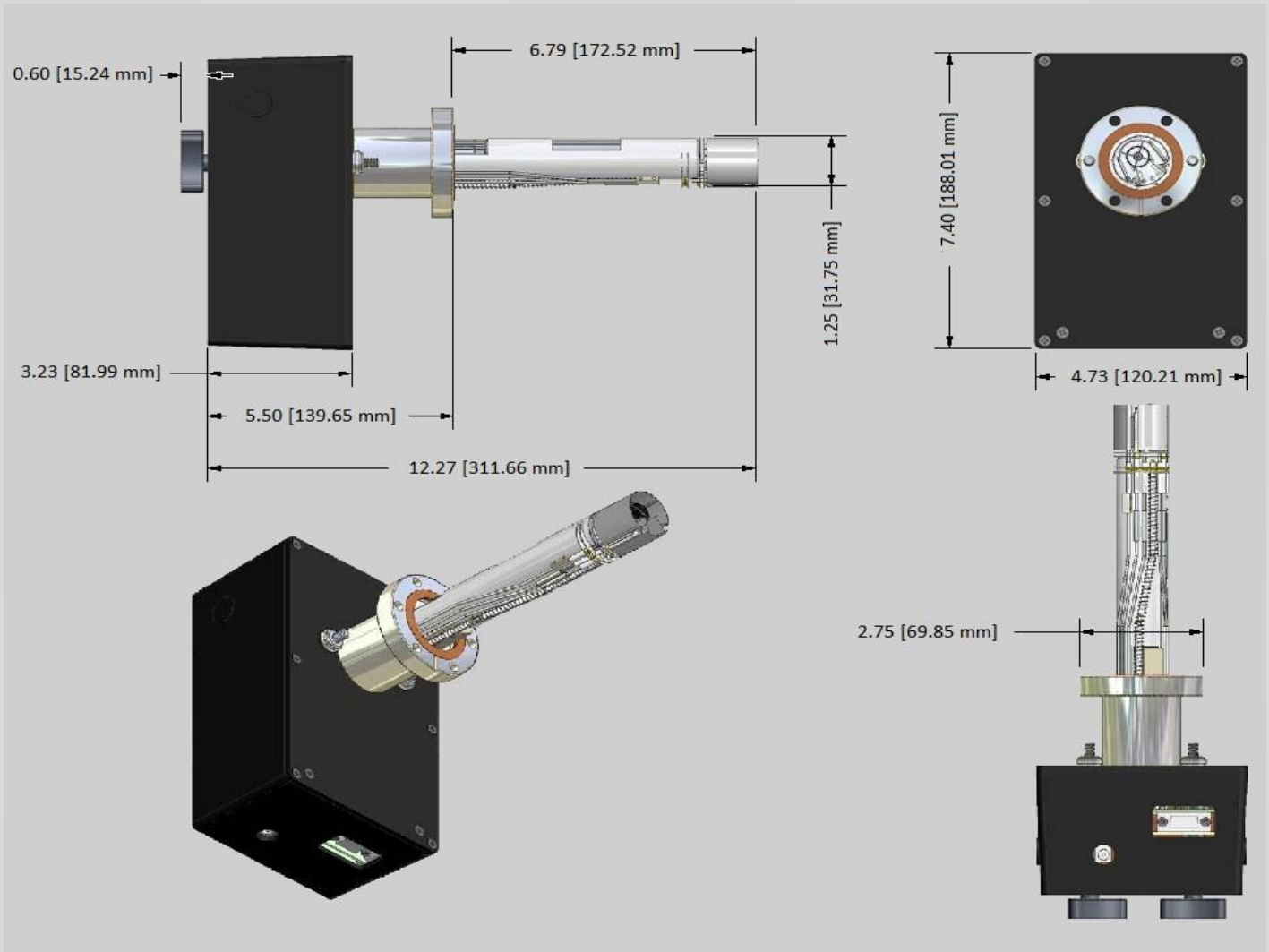


Outputs Tab

Performance and Value

The Extorr XT Series RGA is the only vacuum gauge you will ever need. The combination of flexibility and competitive price make Extorr an outstanding vacuum measurement value.

XT Series Residual Gas Analyzers



RGA Dimensional Drawing, Inches [mm]

Extorr, Inc.

Phone: 724-337-3000

www.ex

· 133-822 서울시 성동구 성수일로77 서울숲IT밸리 714
· Tel. 02-3280-7701 · Fax. 02-3280-7702
· http://www.jytech.com · E-mail. info@jytech.com

XT Series Specifications



Mass range

XT100	1 to 100 amu Faraday cup (FC)
XT200	1 to 200 amu Faraday cup (FC)
XT300	1 to 300 amu Faraday cup (FC)
XT100M	1 to 100 amu Faraday cup (FC) and Electron Multiplier (EM)
XT200M	1 to 200 amu Faraday cup (FC) and Electron Multiplier (EM)
XT300M	1 to 300 amu Faraday cup (FC) and Electron Multiplier (EM)

Mass filter type

Quadrupole

Detector type

Faraday cup (FC), Standard Electron Multiplier (EM), Optional

Resolution

Better than 0.5 amu @ 10% peak height. Adjustable to constant peak width throughout the mass range.

Sensitivity (A/Torr)

5×10^{-4} into Faraday cup. Measured with N₂ @ 28 amu with 1 amu full peak width, 10% height, 70 eV electron energy, 6 eV ion energy and 2 mA electron emission.

Minimum detectable partial pressure

5×10^{-12} Torr Faraday cup, 5×10^{-14} Torr Electron multiplier Measured with N₂ @ 28 amu with 1 amu full peak width, 10% height, 70eV electron energy, 6 eV ion energy, and 2 mA electron emission.

Operating range

UHV to Atmosphere
Pirani gauge, 10^{-3} Torr to ATM
Ion Gauge below 10^{-2} Torr
RGA operation below 10^{-4} Torr

Operating temperature

50 °C Electronics, 100 °C Probe

Bakeout temperature

300 °C (Probe only, CCU removed)

Total pressure measurement

10^{-3} Torr to ATM, Pirani gauge
 2×10^{-10} Torr to 10^{-2} Torr, B/A type
Ion Gauge

Probe Materials

SS304, Kovar, Tungsten, Alumina, Iridium, Copper, Nickel, Thoria, Platinum

Ionizer Design

Open ion source, electron impact ionization

Filament

Dual thoria coated iridium with firmware protection. Built-in 1 to 30W degas ramp-up. Field replaceable.

Electron energy

11 to 150V, programmable

Ion energy

1 to 12V, programmable

Focus Voltage

0 to 150V, programmable

Electron emission current

0.1 to 4 mA, programmable

Probe Dimensions

6.8" from flange face to top of ionizer

Probe mounting flange

2.75" CF

Minimum tube I.D.

1.375"

CCU Dimensions

3.3" x 4.8" x 7.4", Easily separated from probe for bakeout.

CCU Extension

6.2" from flange face with mounting hardware.

Warm-up time

Mass stability ± 0.1 amu after 30 minutes.

Computer Interface

RS-232C, up to 115,200 baud, or USB.

Minimum PC Requirements

PC running Windows 2000, XP, 7, 8, or 10 with 1024 x 768 VGA graphics, keyboard, mouse, CD ROM Drive, and 1 Unused USB or RS-232C Port.

Software

Included VacuumPlus Windows based application. Requires Windows 2000, XP, 7, 8, or 10

Power requirement

24 VDC @ 2.5 Amps.
120/240 VAC adaptor included.

Weight

5 lbs. Total, Probe and CCU.

Extorr, Inc.

307 Columbia Road

New Kensington, PA 15068

Phone: 724-337-3000

www.extorr.com

