

Extreme High Vacuum Gauge AxTRAN



ISX2/X-11



AxTRAN is a hot cathode type ionization vacuum gauge with a Bessel Box type energy filter installed between the ion source and the ion collector. This design provides a measurement resolution of 0.5×10^{-10} Pa by reducing the residual current due to soft X-rays and electron stimulated desorption (ESD) ions.

Features

- Ultimate pressure measurement of 10^{-11} Pa
- Wide pressure measuring range from 1×10^{-1} to 5×10^{-11} Pa
- Two independent set points
- Display uses large, bright and easy to read LEDs (3-digit mantissa)
- Dual Filaments
- Options include digital output (BCD) and RS-232C communications.

Applications

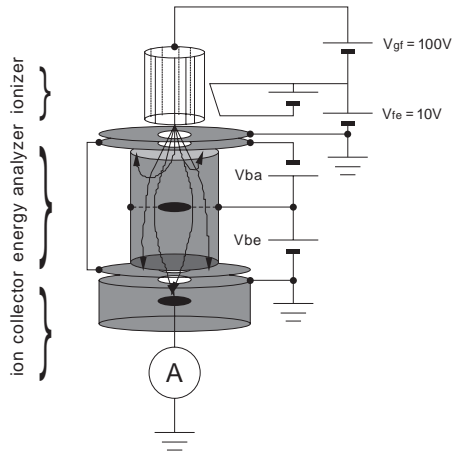
- For total pressure measurement of vacuum equipment such as a high-energy accelerators.
- For pressure measurement of ultra high or extreme high vacuum equipment used in UHV or XHV research work.

Specifications

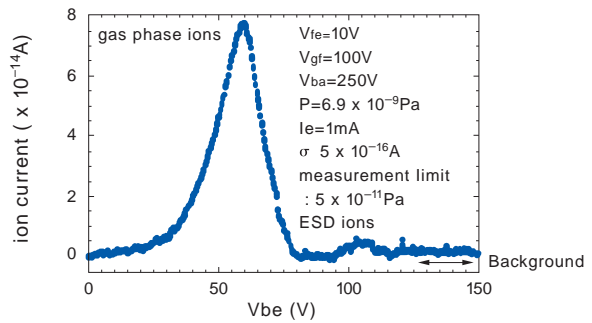
Model	ISX2
Measurable pressure range	$5 \times 10^{-11} - 1 \times 10^{-2}$ Pa
Measurement resolution	0.5×10^{-10} Pa
Display	Digital indication, 3 digit mantissa, 2 digit exponent
Degas	electron bombard
Recorder output	linear output 0 - 10 VDC Pseudo-logarithmic output 0-10V (1V linear signal in each digit)
Set points	2 points
Applicable temperature range	10 - 40°C
Power	AC85 - 240V
External dimensions (W x D x H)	240 x 350 x 99 mm
Weight	5.3 kg
Standard accessories	AC100V (3P plug with ground) power cable Instruction manual
Option	Sensor :X-11 Sensor cable :5, 10, 20m BCD output, RS-232C/485
Compatible sensor head	X-11
Energy filter	Bessel-Box type
Filament	Ir/Y ₂ O ₃ x 2
Mount flange	ICF-070
Max.baking temperature	300°C (without sensor cable)

* W=Width, D=Depth, H=Height

Outline Drawing Sensor Head



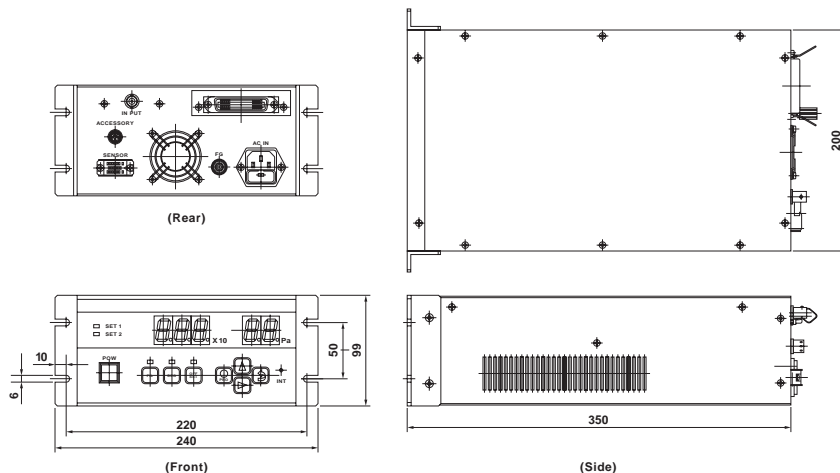
Energy Spectra



External Dimension Diagram

(unit: mm)

•Controller ISX2



•Sensorhead X-11

