

Sputter Ion Pump Controller GST-03L

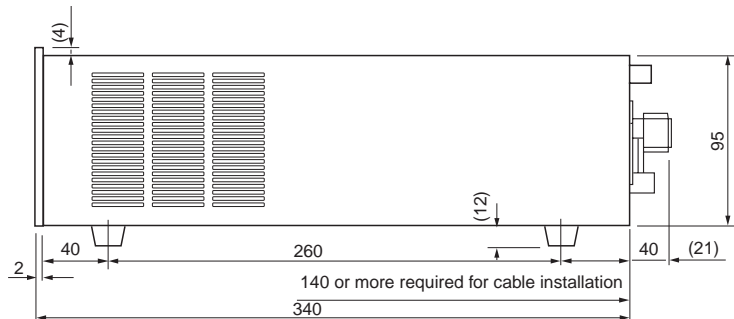
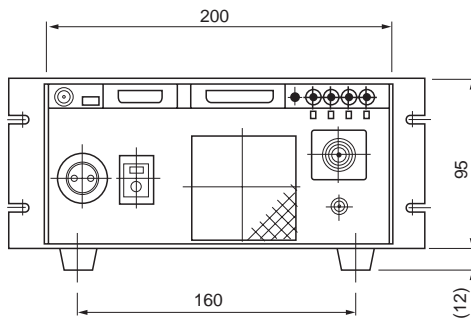
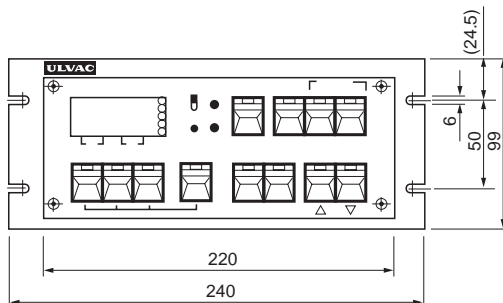


The GST-03L is a sputter ion pump controller with sophisticated functions and high-grade reliability. It is the product of ULVAC's extensive technological reserves and long track record of proven performance in the ultra-high vacuum field.

Features

- Compact, lightweight and multi-function performance
Control of all PST Series sputter ion pump Series is possible using one controller
- Communication functions provided as standard features
Remote control and automated operations are possible with the external communication control functions as standard features
- XHV application is possible
Pump cell contamination can be reduced to the absolute minimum by the automatic start circuit and soft start functions (Patent No. 1340297, etc. pending)
- Improved safety functions
Interlock functions for protection
Fluorocarbon resin high-voltage cables that is well resistant to heat/cold with excellent electrical characteristics

External Dimension Diagram (unit: mm)



Specifications

Item	Model	GST-03L
Attachable pump		Acter pump (all models in PST series)
Operating pressure		10 ⁻² Pa-10 ⁻⁴ Pa or lower
Display range	Display method	Digital display
	Display contents	(on 7-segment LEDs)
	a) Output current display	Automatic selection of 2 ranges: mA, μA (linear display)
	b) Outlet voltage display	DC1.0-7.5 kV (H or L) (1-range linear display)
	c) Pressure display	1.3 x 10 ⁻⁹ Pa - 1.3 x 10 ⁻¹ Pa (1-range linear display)
Output release voltage		DC+7.5 kV (2 points, high and low, selectable using front panel switch; high/low voltage setting adjustable from approximate 1.0 kV to 7.5 kV using trimmer)
Output current		Less than DC 31mA
Input voltage/current		AC100-115V ± 10%, 50 / 60Hz · 5.0A AC200-240V ± 10%, 50 / 60Hz · 2.5A
Output signals		Output of signals proportionate to 7-segment panel display, DC 0 to 10 V full scale for each range, 100 k
Pressure setting points		2 points
REMOTE/LOCAL		Set using front panel switch (Torr setting) Selectable using front switch
External control functions		Various input/output functions provided (REMOTE connector provided)
Protection functions		Error display/various protection functions provided High voltage output shutdown when Err1 to Err 5 light Timer setting for startup protection (adjustable from 1 to 255 minutes) Automatic resetting after power failure (HV hold switch operation)
Ambient operating conditions	Temperature	0 - 40 °C
	Humidity	Less than 85 % (no dew)
Accessories		Output cable (5 m), input cable (3 m)
Weight		Main unit: approx. 5.5 kg, cables: approx. 1.0 kg
Dimensions W x D x H *1		240 x 340 x 99

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