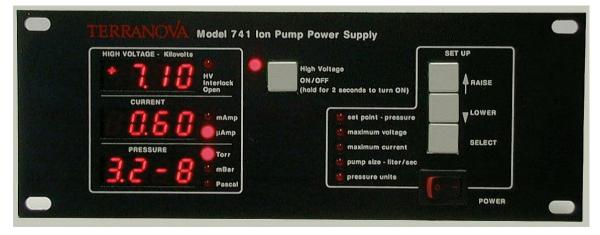
Terranova Model 741

Ion Pump Power Supply



The Terranova Model 741 Ion Pump Control Unit is designed to supply operating power to a sputter ion pump and to display the voltage, current and pressure. It is designed to start and operate pumps of 20 l/s and smaller and to operate larger pumps of any size at lower pressures.

The Terranova Model 741 is a programmable, microprocessor controlled unit, which gives it great versatility in operation, display, control and data communication. Some major features include:

- Programmable High Voltage Output
- Programmable Maximum Current
- Programmable Pump Size for Pressure Display
- Programmable Process Control Set Point
- Display for voltage, current and pressure
- RS 232 Serial I/O for Data Collection and Computer Control
- Analog Outputs for Monitoring Voltage and Current
- Ground Sensing Circuit for Operator Safety
- CE Conformance for EMI, EMC and Safety
- Universal Power Supply: 100-250 Volts; 50/60 Hz or DC



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1. Electrical Specifications

INPUT PARAMETERS

Voltage	Universal: 100-250 Volts, 50/60 Hz or DC.
Current	1 Amp maximum in START mode (115VAC).

OUTPUT PARAMETERS

Open Circuit Volta	ge Operator Set	+/-3500 to 700	0 VDC
(Units shipped with + high voltage polarity unless			
otherwise specified. Switching polarity must be			
performed at the factory)			
Short Circuit Curre	ent Operator S	Set	25 milliamps maximum
Overload Protection Fuse for line power.			
	Power automatically adjust	ted for pump star	ting.
Display	LED Displays		
	3 Digits plus Sign (+/-) X.XX - kilovolts		
	3 Digits Current - milliamp and microamp autoranging		
	2 Digits plus Exponent for	Pressure	
Pressure Units	Operator Set: Torr, mbar,	Pascal	

ANALOG OUPUTS

Voltage	0 - 10 volts; 1 volt pe	0 - 10 volts; 1 volt per 1000 volts	
Current	0 - 10 volts;	User Selectable	
	200 microamps p	200 microamps per volt to 2000 microamps	
	2 milliamps per v	volt to 20 milliamps	

2. Physical Specifications CONNECTORS/CABLES

6.7 foot (2 meter) length Belden Type 17250 or		
equivalent NEMA 5-15P grounding plug. PH-290B		
ut SHV/BNC Connector, Rated at 10KV		
High Voltage Cables: -10 Series, See Duniway Stockroom Catalog or Web Site		
9-Pin D-sub type Connector, Female Pins		
15-Pin D-sub type Connector, Female Pins		
Isolated 8/32 Threaded Stud		

DIMENSIONS

Panel	9.5 in (24.1 cm) W x 3.5 in (90 cm) H
Cabinet Depth	16 in (406 cm) deep
	(Allow 4 in (10.2 cm) extra for cable clearance)

WEIGHT

Installed Weight	6 lb (2.7 kg)	Shipping Weight	10 lb (4.5kg)
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OPERATING ENVIRONMENT

Temperature	32°F to 105°F	$(0^{\circ}C \text{ to } 40^{\circ}C)$
Humidity	0 - 80% Relative H	umidity, Non- condensing
Altitude	Sea Level to 10,000) feet (3100 meters)