



DIGITEL™ QPC Quad Pump Controller

THE NEW REFERENCE FOR
ION PUMP CONTROLLERS



The QPC ion pump controller is the new reference on the market. It controls up to 4 ion pumps independently, and is the world's first ion pump controller featuring a large, color, touch panel. The large and bright display means pump parameters can be easily read in most conditions, from both wide angles and at long distances. Full-featured Ethernet as well as RS 232/422/485 communication is standard on all units. Response time on commands or pump events is under 30 ms—another world class feature.

USER FRIENDLY

- 7" WVGA color touchscreen
- Configurable screensaver
- Intuitive operation
- Easy to read under wide angles and long distances
- Individual names for each channel for easy pump identification



PERFORMANCE

- 1 to 4 individual pumps from 3 to 1200 l/s
- Wide operation range with different pumps and pressures
- 125 W per channel
- Voltage programmable from 3kV to 7kV in 100V increments
- With Scanning Electron Microscope (SEM) applications in mind the AC component (noise) on top of the high voltage is reduced to a minimum

ACCURATE

- Converts pump current to pressure
- Reads currents down to 1 nA
- XHV reading possible
- Fine pressure resolution
- Small pumps reading

COMMUNICATION

- Ethernet standard
- Full set of RS connections (232, 422, 485)
- Optional Profibus
- Analog I/O
- Typical response time < 30 ms



SAFETY

Two interlock systems are available:

- SafeConn Interlock system, a two-wire, ground potential independent circuit. Less electric noise, no ground loop
- Simple Varian ground potential related circuit



STANDARD OPTIONS*

High Voltage	Polarity	Connectors	Connections/Channel	Input Voltage	Communications	Remote Enable	TSP/NEG
1 One Section	P Postive	S 10kV SHV (SAFECONN)	1 One Ouput	US110 US 110 plug	S Serial/Ethernet	S Standard	N None
2 Two Sections	N Negative	F Fischer (Interlock)	2 Two Ouputs	US220 US 220 plug			TSP Remote TSP Control
3 Three Sections			3 Three Ouputs	EC230 EC 230 plug			DTSP Dual Remote TSP Control
4 Four Sections			4 Four Ouputs	UK240 UK 240 plug			NEG Remote NEG Control
				AU230 AU 230 plug			DNEG Dual Remote NEG Control

*Configured part numbers and pricing are available at www.gammavacuum.com.

TECHNICAL SPECIFICATIONS

INPUT POWER	
Voltage	100-240 volts
Frequency	50-60 Hz
OUTPUT POWER	
Independent Outputs	1-4
Open Circuit Voltage	+/-3000-7000 vdc programmable
Current (maximum)	125 mA
Watts (maximum)	125
Resolution	1 nA
HIGH VOLTAGE CONNECTIONS	1-4, 10kV SHV or Fischer
DISPLAY	
Type	Wide VGA Touchscreen Color LCD
Readouts	Pressure, current, voltage, and programmable options
ANALOG OUTPUTS	
Voltage	linear, configurable
Current/Pressure	linear or logarithmic, configurable
SETPOINTS	Four relay, four TTL
COMMUNICATIONS	
	Local/Remote/Full
	Ethernet
	Serial: 232, 422, 485
CONFORMITY TO NORMS	
	EN 55011 Class A, IEC 801-2
	EN 801-3, IEC 801-4, EN 61010-1
WEIGHT, KG (LBS)	9.5 (21)
SIZE	3U high, 1/2 rack wide
	438 mm (17.2 in.) deep
ADDITIONAL FEATURES	
	SAFECONN
	AUTOSTART/AUTORUN

SUPPORTIVE

Can control Gamma's remote TSP & NEG controllers. Up to two TSP or NEG pumps can be controlled via the QPC display.



GAMMA VACUUM

Part of the Atlas Copco Group

2915 133rd Street West
Shakopee, MN 55379 | USA

800.237.3603 T | 952.445.4841 P
952.445.7615 F

gammavacuum.com
info@gammavacuum.com