



PLASMA SOLUTIONS, INC.

New program specs: The attached software was designed for a European system. The software was commissioned by 4th State, Inc., a California company. They have commissioned me to develop a new system in the US and want the same features as before. Once you load up the program you will see that it does cover a lot of manual as well as auto functions. I would like to use this as a basis for a new system but would like to offer the system in two levels: 1. With limited I/O's and one with a lot of bells and whistles. The limited system may be able to utilize something less than a SLC 504 system, let me know what you think might be more cost effective.

I will need a quote on the software development and once I have a system design together you can quote the construction side of the project. I will also be using this for a retrofit package for older systems.

Low end I/O's:

- Analog Inputs
 - RF Generator Forward Power 0-5 or 0-10vdc
 - RF Generator Reflected Power 0-5 or 0-10vdc
 - Mass Flow Controller 1 0-5vdc
 - Mass Flow Controller #2 0-5vdc
 - Mass Flow Controller #3 0-5vdc
 - Pressure gauge #1 0-10vdc
 - Pressure gauge #2 0-10vdc
- Analog Outputs
 - RF Generator setpoint 0-5 or 0-10vdc
 - Mass Flow Controller #1 setpoint 0-5vdc
 - Mass Flow Controller #2 setpoint 0-5vdc
 - Mass Flow Controller #3 setpoint 0-5vdc
 - Throttle valve controller 0-10vdc
- DC Inputs
 - Pressure setpoint relay contact
 - RF OK 5vdc (ttl) or relay contact
 - Valve open (throttle) relay contact
 - Valve close (throttle) relay contact
 - Chamber door relay contact
 - Atmosphere switch relay contact
 - Remote start (optional) relay contact
 - Abort relay contact
 - Key Switch relay contact
- DC Outputs
 - RF ON TTL
 - Throttle open TTL
 - Throttle close TTL
 - Automatch presets TTL
- Relay Outputs
 - Main vac valve
 - Gas on valve
 - Vent valve
 - Vacuum valve
 - Gas 1 valve
 - Gas 2 valve
 - Gas 3 valve