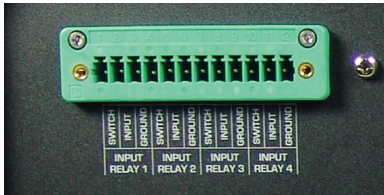


Condition / Action / Situation	Gen II Heater Controllers (Multicon™, Monocon™)			Gen I Heater Controllers (MultiSleeve™, MonoSleeve™)	
	Input Relay ^{1,2}	Output Relay ^{1,3}	USB to PC ^{3,5} (ModBus RS-485)	Contact Closure	USB to PC
Interfaces with instrumentation / hardware	✓	✓	NA	✓	✗
e.g. - LC pump runs dry / shut down heater ⁶	✓	NA	NA	✗	✗
e.g. - turn off LC pump ⁶	NA	✓	✓	✗	✗
Sends commands to adjust most parameters	NA	NA	✓	NA	✗
Uses GUI Software ^{4,7}	NA	NA	✗ ⁴	NA	✓
Condition 1: Set-point Reached	NA	✓	✓	✗	✗
Condition 2: Above Set-point	NA	✓	✓	✗	✗
Condition 3: Below Set-point	NA	✓	✓	✗	✗
Condition 4: Heater Fails	NA	✓	✓	✗	✗
Condition 5: Heater Enabled	✓	✓	✓	✓	✗
Condition 6: Countdown Timer Expired	NA	✓	✓	✗	✗

- (1) Programmable independently for each heater device
 (2) Completed circuit: Heat to setpoint; Disconnected: Off/Ambient
 (3) Six conditions and the contact can be momentary or latching
 (4) Gen II allows for scripted commands. Previous generation only had GUI software.
 (5) ModBus RS-485 allow for daisy chaining up to 31 controllers and send serial commands addressable to each node.
 (6) Requires pump to have output contact closure and be programmable for situation.
 (7) Graphical User Interface (GUI) not required in Gen II
 NA - Not applicable.

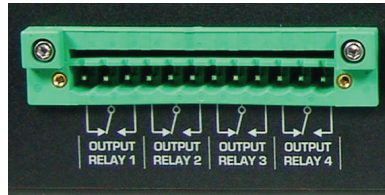
Gen II Heater Controller Connections



Input Relays

Completed circuit = Heat to setpoint
 Open = Off / Ambient

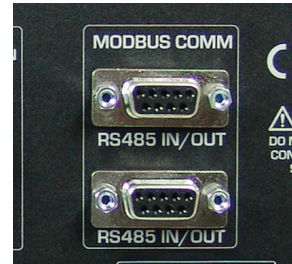
Can be enabled/disabled per channel/
 device and set-point programmed on
 touchscreen or via USB commands.



Output Relays

Conditional set on touchscreen or
 via script/commands

Relays are programmable to be
 either momentary or latching
 (sustained).



MODBUS RS-485

Daisy chain controllers
 or other RS-485 hardware



USB

Used to initiate / first
 connection of ModBus
 RS-485 chain