

URC II

Universal Reactor Controller



Principle of Operation:

The URC II Controller is an integrated package utilizing a Programmable Logic Controller (PLC) for all process control, monitoring and coordination in conjunction with a touch screen operator display unit. The URC II provides the operator with a concise point of control for all processes related to a reactor system. The unit controls and monitors the reactor's external and internal temperatures, the speed of the mixture, and the pressure within the reactor.



Features and Benefits:

- Controls an electric heater, 120 VAC or 240 VAC (Internal 20 Amp Temperature Control)
- Controls an electric motor, 120 VAC handles a 90 VDC 1/2 hp motor, 240 VAC handles a 180 VDC 1/2 hp motor
- 3-1/2" Diagonal Color Touchscreen user interface
- Two (2) Type 'K' Thermocouples degree C or degree F readout
- Non-Latching overtemp control action
- Closed Loop DC motor speed control
- Pressure Indication Range up to 689 bar (10000 psi). [Set at 0 "zero" at factory, user adjustable in the field.]
- Extra analog input & output for controlling a single Mass Flow Controller or Mass Flow Meter, or an Analog Valve
- RJ11 connector for RS232 communication (the URC II comes with an adapter to adapt to 9 pin sub D)
- CE marked
- UL/CUL listed
- Can be used for all Parker Autoclave units, from 25 ml to 4,000 ml volumes.



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Features and Benefits: con't

- Pressure control and indication is set at 'No pressure Transducer' at the factory [user adjustable in the field], available options are as follows:
 - Indication only
 - On/Off Inlet Control (Digital)
 - On/Off Outlet Control (vent) (Digital)
 - On/Off Inlet & Outlet Control (Digital)
 - On/Off Inlet Control & Analog Output
 - On/Off Outlet Control & Analog Input
 - Analog Inlet Control
 - Analog Outlet Control
- Bar/psi pressure units
- Tachometer sensor input
- Pressure transducer input
- Two (2) digital 120 VAC or 240 VAC outputs to operate solenoid valves
- URC II controller is shipped with flying leads, but is designed to accept a standard 30 amp plug

Ordering Guide:

Part Number: URC-II-120

Part Number: URC-II-240

WARNING

FAILURE, IMPROPER SELECTION OR IMPROPER USE OF THE PRODUCTS AND/OR SYSTEMS DESCRIBED HEREIN OR RELATED ITEMS CAN CAUSE DEATH, PERSONAL INJURY AND PROPERTY DAMAGE.

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Instrumentation Products Division

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Caution! Do not mix or interchange component parts or tubing with those of other manufacturers. Doing so is unsafe and will void warranty.

Caution! Parker Autoclave Engineers Valves, Fittings, and Tools are not designed to interface with common commercial instrument tubing and are designed to only connect with tubing manufactured to Parker Autoclave Engineers AES specifications. Failure to do so is unsafe and will void warranty.

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