

# URC II Mini

## Universal Reactor Controller



### Principle of Operation:

The URC II Mini 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 Mini 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 8 Amp Temperature Control)
- Controls an electric motor, 120 VAC handles a 90 VDC 1/4 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 Mini comes with an adapter to adapt to 9 pin sub D)
- CE marked
- UL/CUL listed
- Can be used for all Mini Reactors, ZipperClaves<sup>®</sup>, EZE-Seals, and Bolted Closures up to 300 ml.



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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 Mini controller is shipped with flying leads, but is designed to accept a standard 15 amp plug

## Ordering Guide:

Part Number: URC-II-Mini-120

Part Number: URC-II-Mini-240

### WARNING

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