

# Preliminary Specifications

## Series 161 RH/Temperature Controller

- Temperature Range:**
- 50-120°F.
  - Adjustable with independent setpot.
  - Available with or without dial scale in the event the customer would like to screen an equivalent dial scale on his equipment panel area.
- RH Range:**
- 40-90% RH effective.
  - 0-100% dial scale range.
  - Adjustable with independent setpot.
  - Available with or without dial scale in the event the customer would like to screen an equivalent dial scale on his equipment panel area.
- Outputs:**
- Solid state switch, 0.5 amp, 230 VAC.
  - This switch is used on both the TEMP and RH outputs.
  - 5 mv/LSD signal for external indication of process temperature of RH%.
- Power Inputs:**
- 115 or 208/230 VAC  $\pm$  10% using appropriate primary terminals.
  - Also available from factory for 24 VAC 60 Hz input.
- Storage Temp:**
- -40 to +158°F or -40 to +70°C
- Sensor:**
- Temperature:**
- Solid state temperature sensor which also provides RH temperature compensation.
- RH:**
- RH sensor is a "dry" sensor (not wet bulb/dry bulb) which requires little or no maintenance.
  - Suitable for specific use in baking proofers cabinets.
  - Accurate  $\pm$  10% over the range from 40-90% with factory calibration at 40 and 85% at 105°F.

**Note: Sensor is not suitable for operating temperature in excess of 130°F.**

### **Control Modes:**

- Temperature:**
- Time proportioning with manual reset on the setpot shaft only using knob position adjustment.
  - Also available without auto reset.
- RH:**
- Time proportioning with auto reset. Autoset incorporates anti-reset windup circuitry when system is outside of the proportional band.
  - Also available without auto reset.

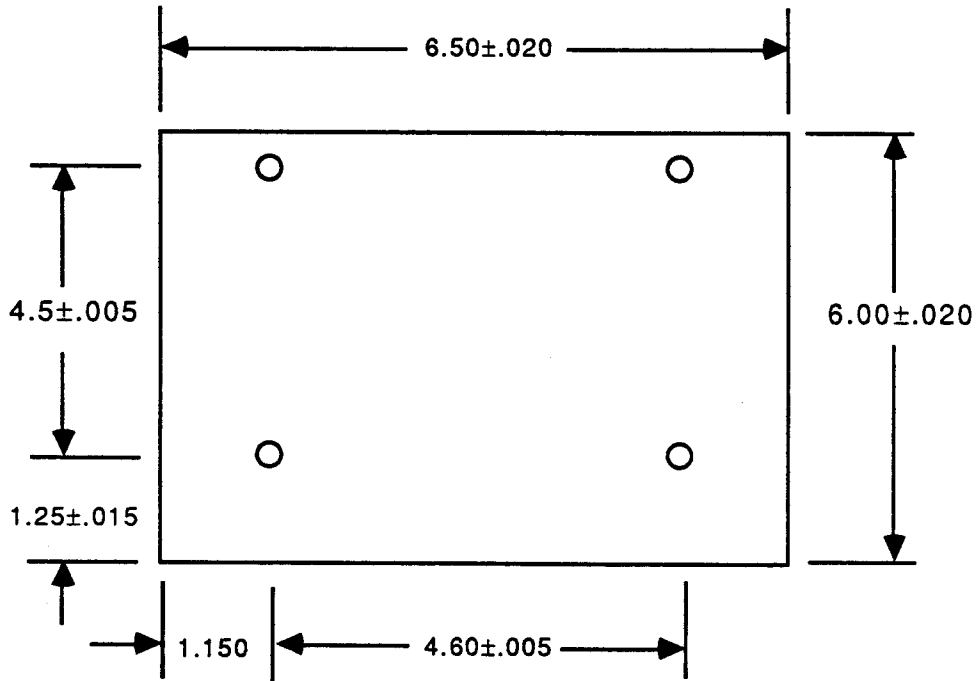


# WATLOW

Watlow Winona, Inc. 1241 Bundy Blvd., Winona, MN 55987 507/454-5300, Telex: 6879137

SERIES 161 RH/TEMPERATURE CONTROL  
 PRINTED CIRCUIT BOARD DIMENSIONS  
 MODEL NO. 161A-XXXX-XXXX

SUB-ASSEMBLY NO. A007-1608-0000



PRODUCT NUMBER FORMAT

161A - X X X X - 00AA

OUTPUT: Solid State Relay, 0.5 amps, 230VAC

MODE CONTROL:

- 1 RH & TEMP both Time Proportioning (TP)
- 2 RH & TEMP both TP and Auto Reset (AR)
- 6 RH - TP and AR; TEMP - TP only

CONNECTIONS:

- A Barrier Strips
- B Quick Connectors (0.025 Male)

INPUT TRANSFORMER:

- 1 115 or 208/230VAC, 60 Hz.
- 2 24 VAC, 60 Hz Input Primary

DIAL SCALES 7 REMOTE SETPOTS, RH AND TEMPERATURE:

- 0 With Dial Scales
- 1 No Dial Scales