Low Cost Series 7R Temperature Controller provides excellent process control when combined with the Hi-Flow® Pneumatic Control Valve. This rugged unit utilizes time-proven bi-metal technology and can be installed in any position for application flexibility. The tamper-resistant knob assures reliable, continuous operation. Precision gauges provide accurate indication of supply pressure as it passes into the controller and outlet pressure into the pneumatic actuator.

Caution: Use of a supply gas other than air can create a hazardous environment because a small amount of gas is continuously vented to atmosphere.

### MODELS

<table>
<thead>
<tr>
<th>MODEL NO</th>
<th>ACTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>7RD314</td>
<td>Direct</td>
</tr>
<tr>
<td>7RR314</td>
<td>Reverse</td>
</tr>
</tbody>
</table>

SPECIFICATIONS

Supply Pressure: 20 psig (1.37 bar).
Temperature Range: 32 to 250°F (0 to 121°C).
Output: 3 to 15 psi (0.21 to 1.03 bar)
Wetted Materials: 304 SS.
Process Connection: 3/4” male NPT union hub.
Air Connections: 1/8” female NPT.
Weight: 4.125 lb (1.87 kg)

Temperature Setpoint Scale: Arbitrary linear.
Standard Features: Pneumatic input and output gages.

Suggested Specification

Temperature controller shall be installed for (direct)(reverse) acting service. Unit shall have adjustable tamper resistant knob. The outer stem shall be type 304 SS welded construction, 12 inches (30.5 cm) long. The inner rod shall be constructed of invar nickel steel. Process connection shall be 3/4” NPT. Controller shall be W.E. Anderson Model No. 7R(D)(R)314.

---

Stop wasting time and money by trying to find a suitable location to mount your controller and current to pressure transducer - The Model EP1000 Electro-pneumatic Controller combines the highest quality instrumentation in one compact NEMA 4X enclosure for easy, low cost installation. Simply provide a supply pressure and voltage with a standard thermocouple, RTD, DC voltage or DC current input to this unit and a traditional pneumatic process quickly converts to a state-of-the-art electronic operation. The versatile microprocessor-based controller incorporates a high level of standard features. Typical function setup items appear in the control menu only when the function is selected, so you don’t have to wade through unnecessary items. Standard features include SelfTune, Fuzzy Logic, fully adjustable PID and Auto/Manual control with bumpless transfer. Combine this versatile controller with the Hi-Flow® Valve for excellent process operation in industries like food and beverage processing, pulp and paper, chemical and pharmaceutical.

Model EP1000

SPECIFICATIONS

Front Panel Selectable Inputs:
Thermocouple, RTD, DC voltage or DC current.

Input Impedance:
Thermocouple - 3 Megohms min.
Voltage - 5000 ohms.
Current - 10 ohms.
RTD Current - 200 µA max.

Supply Pressure: 20 psig (1.4 kg/cm²) minimum, 100 psig (7.0 kg/cm²) maximum.
Output: 3-15 psig (21-111 kg/cm²).
Accuracy: ±1.0% of span.
Linearity: ±0.75% of span.
Hysteresis: ±0.5% of span.

Repeatability: ±0.5% of span.
Power Requirements: 100 to 240 VAC nominal, ±10%, 50 to 400 Hz., single phase; 132 to 240 VDC, ±10%.
Temperature Limits: 14 to 130°F (-10 to 55°C).
Pressure Connections: 1/4” female NPT (supply and output).
Air Consumption: 0.1 scfm (0.5 l/s) @ 100 psig.
Output Capacity: 4.0 scfm (1.9 l/s).
Enclosure: NEMA 4X.
Weight: 8 lb 2 oz (3.69 kg).