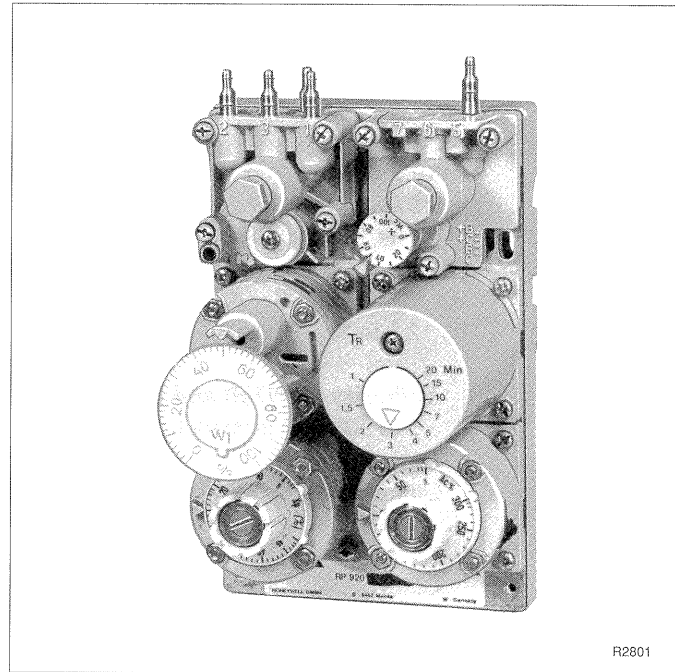


RP920A-D Modular Pneumatic Controllers



General

The RP920 Modular Pneumatic Controllers, in conjunction with remote sensors, provide proportional or proportional plus integral control of temperature, humidity, pressure, or dewpoint in heating and air conditioning systems.

Features

- Proportional plus integral control minimizes offset
- Miniature diaphragm technology provides high degree of accuracy and reliability
- Field adjustable compensation start point
- Local or remote setpoint field optional
- Integral action cut-off provides trouble-free automatic startup
- Transparent cover (optional) provides protection while allowing easy reading of settings and gages
- Corrosion resistant construction

Description

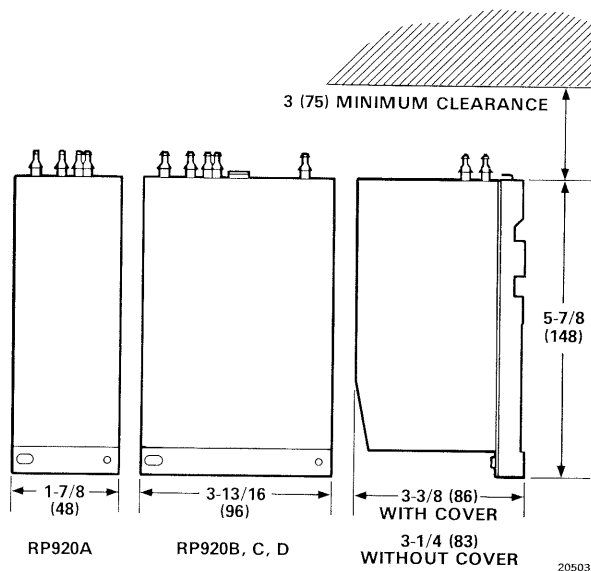
RP920 Modular Pneumatic Controllers, in conjunction with remote sensors, provide proportional or proportional plus integral control of temperature, humidity, pressure, or dewpoint in heating and air conditioning systems.

Specifications

Models:

- RP920A: Single Input Proportional Controller
 - RP920B: Dual Input Proportional Controller
 - RP920C: Single Input Proportional plus Integral Controller
 - RP920D: Dual Input Proportional plus Integral Controller
- All models available Direct or Reverse Acting.
All models available with Control Point Adjustment (CPA).

Dimensions In Inches (Millimeters):



Air Connections:

Combination 5/32-in. (4-mm) and 1/4-in. (6-mm) push-on barb

Main Air Supply (MLP):

17 psi (117 kPa) minimum

Maximum Safe Air Pressure:

30 psi (207 kPa)

Input Signal:

3 to 15 psi (21 to 103 kPa)

Output Signal:

3 to 13 psi (21 to 90 kPa)

Air Consumption:

Add sensor consumption for total. Values valid for 18 psi MLP and 8.5 psi BLP (124 kPa MLP and 59 kPa BLP)

RP920A and C: 0.021 scfm (10.0 ml/s)

RP920B and D: 0.046 scfm (21.7 ml/s)

Normal Sensor: 0.021 scfm (10.0 ml/s) depending on sensor selected

Air Capacity:

0.07 scfm (33.0 ml/s) with 1 psi (7 kPa) pressure difference at 18 psi (124 kPa) MLP

Proportional Band:

2.5 to 50%, field adjustable

Authority (RP920B and D only):

5 to 300% of primary sensor span

Compensation Start Point (RP920B and D only):

0 to 100% of compensation sensor span

Control Point Adjustment (Orderable Option):

±15% of primary sensor span with 3 to 15 psi (21 to 103 kPa) input

Remote Setpoint (Field Option):

0 to 100% of primary sensor span with 3 to 15 psi (21 to 103 kPa) input

Integral Reset Time:

0.5 to 20 minutes, field adjustable

Ambient Temperature:

40 to 130F (4 to 54 C)

Accessories:

- Barb fitting 14003755-001 for port 4, 6, 7, or 8 if connection required
- Gages
- Remote setpoint device, SP970 or equivalent
- Cover RP920A: 43188057-010
- Cover RP920B, C, D: 43188123-010
- Static Pressure Setpoint Scales 14004267-002.
(Commonly used scales for temperature, dewpoint, and relative humidity are included with the RP920)
- Rail Mounting Bag Assembly 14004322-001 (25 sets per bag assembly)

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