

Temperature Transmitters

Powers **RETROLINE**[®]
easily replaces:

- Barber-Coleman
- Johnson Controls
- Honeywell
- Robertshaw
- Seibe



184-0340 Room
Temperature
Transmitter.



184-0005 Temperature
Transmitter with
Remote Bulb.



184 Temperature
Transmitter with
Averaging Bulb.



184 Temperature
Transmitter with
Rigid Bulb.

Description

The 184 Temperature Transmitters are direct acting, one-pipe instruments that sense temperature and transmit a proportional 3 to 15 psi (21 to 103 kPa) pneumatic signal to a remotely located receiver gauge and/or receiver controller. Temperature Transmitters operate on the force-balance principle, using internal feedback for excellent linearity and accuracy.

Powers Retroline transmitters easily replace any competitive model. Refer to the appropriate product to locate the Retroline replacement.

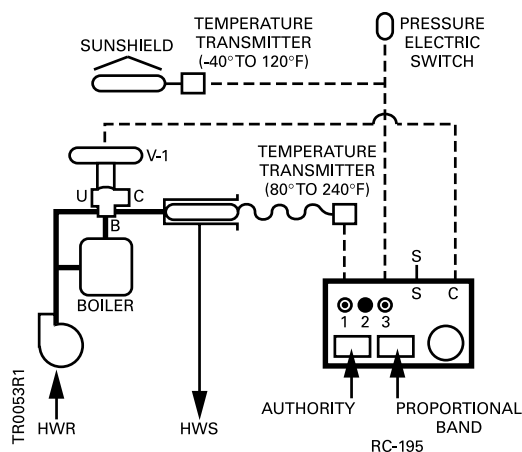
Features

- 1-pipe, direct acting
- Rapid response to temperature changes over their full range
- Available in a variety of sensing elements and temperature ranges
- Available with rigid bulb, remote averaging bulb, and room transmitter
- Internal feedback for excellent linearity and accuracy

Applications

The 184 Temperature Transmitters can be used for a variety of applications to monitor temperature and are ideal for those requiring indication with a receiver-controller.

Application Drawing



Hot water temperature setpoint reset.

F-33

Pneumatics

Retroline® 184 Temperature Transmitters Specifications

Action Direct

Output Air Pressure 3 to 15 psi (21 to 103 kPa)

Ambient Temperature Range 40 to 120°F (4.4 to 49°C)

Input (supply) Air Pressure

Restrictor Size 40 scim (11 ml/s)

Calibration Pressure 22± 1.0 psi (152± 6.9 kPa)

Maximum 30 psi (207 kPa)

Thermal System

Room Bimetal

Rigid Bulb Rod and tube

Remote Bulb Liquid-filled

Air Consumption 35 scim (10 ml/s)

Air Connections 1/8" NPT (Except for room type)

Mounting

Room Wall terminal

Rigid Bulb Mounting flange

Remote Bulb Mounting flange or well bracket mounting kit

Averaging Bulb Mounting flange

Cover Finish

Room Desert Beige, plastic

Rigid, Averaging and Remote Bulb Gray

Dimensions

Room 2.16" W x 3.35" H x 1.59" D
(55 mm W x 85 mm H x 40 mm D)

Averaging Bulb/Remote Bulb 1.875" W x 3" H x 1.69" D
(48 mm W x 76 mm H x 33 mm D)

Temperature Transmitter Product Ordering

Description	Temperature Range	Part No.
Rigid Bulb Transmitter 9" bulb (229 mm)	35 to 135°F (2 to 57°C)	184-0001
	50 to 100°F (10 to 38°C)	184-0002
	80 to 240°F (27 to 116°C)	184-0003
	0 to 100°F (-18 to 38°C)	184-0028
Remote Averaging Bulb Transmitter 3/32" Dia. X 20' L (2 mm x 6.1 m L) w/ 12" (305 mm) capillary	35 to 135°F (2 to 57°C)	184-0004
	0 to 100°F (-18 to 38°C)	184-0048
Remote Bulb Transmitter 1/4" Dia. X 4' L (6 mm x 102 mm L), 3' (0.92 mm) armored capillary	-40 to +120°F (-18 to +38°C)	184-0005
	50 to 100°F (10 to 38°C)	184-0018
	80 to 240°F (27 to 116°C)	184-0014
	0 to 000°F (-18 to +38°C)	184-0036
	-10 to +65°F (-23 to +18°C)	184-0015
	35 to 135°F (2 to 57°C)	184-0034
	30 to 190°F (-1 to +88°C)	184-0041
Remote Bulb Transmitter 1/4" Dia. X 4' L (6 mm x 102 mm L), 3' (0.92 mm) armored capillary	-40 to +120°F (-40 to +49°C)	184-0006
Room Temperature Transmitter With cover and wall plate	50 to 100°F (10 to 38°C)	184-0340

Manufacturer Cross-Reference

Manufacturer Part No.	Description	Temperature Range	Part No.
Honeywell			
LP914A1003	Rigid Bulb Transmitter 12" bulb (255 mm)	-40 to +160°F (-40 to +371°C)	184-0120
LP914A1052	Rigid Bulb Transmitter 6" bulb (152 mm)	40 to 240°F (4 to 116°C)	184-0121
Johnson Controls			
T5210-1002	Remote Bulb Transmitter 1/4" x 7-5/8" bulb (6.4 mm x 194 mm) w/ 8" (203 mm) capillary	0 to 100°F (-18 to 38°C)	184-0123
T5210-1004	Remote Bulb Transmitter 1/4" x 7-5/8" bulb (6 mm x 194 mm) w/ 8" (203 mm) capillary	40 to 240°F (4 to 116°C)	184-0122
T5210-1007	Averaging Bulb Transmitter 3/32" x 18-3/4" bulb 2.4 mm x 5.7 m) w/ 12" (0.305 m) capillary	50 to 150°F (10 to 38°C)	184-0129
T5210-1009	Averaging Bulb Transmitter 3/32" x 18-3/4" bulb (2 mm x 5.7 m) w/ 12" (0.305 m) capillary	0 to 100°F (-18 to +38°C)	184-0125
T5210-1113	Remote Bulb Transmitter 1/4" x 7-5/8" bulb (6 mm x 194 mm) w/ 50" (1.27 m) capillary	-40 to +160°F (-40 to +71°C)	184-0124