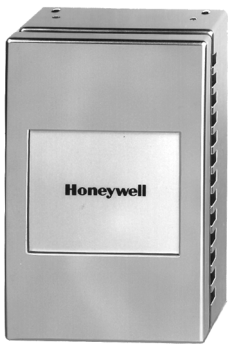


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Humidity Sensors

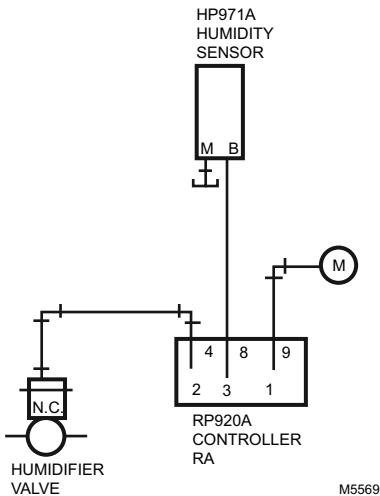
HP971 Pneumatic Humidity Sensor



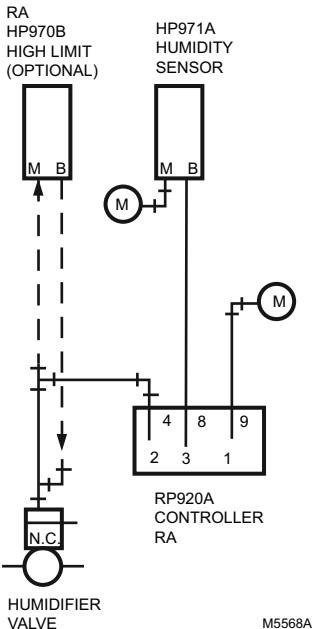
One- or two-pipe, direct-acting humidity sensor used with RP908/ RP920 Controllers to provide proportional control of pneumatic valve or damper actuators in systems requiring humidification or dehumidification control.

- Corrosion resistant materials.
- Simple plug-in air head connections.
- Factory calibrated.
- Continuous relative humidity indication available by using receiver gage.
- Integral or external restriction can be used.

HP971A One-Pipe Application



HP971A Two-Pipe Application



Application Type: Humidity Sensor
Dimensions, Approximate: 3 1/4 in. high x 2 in. wide x 1 5/8 in. deep
(88 mm high x 51 mm wide x 41 mm deep)
Action: Direct Acting
Airflow Usage: 0.022 scfm (10.4 mL/s)

Connections: Push-on barb for 5/32 in. (4 mm) O.D. tubing
Maximum Operating Temperature: 125 F (52 C)
Maximum Operating Pressure: 25 psi (172 kPa)
Output Pressure Range: 3 psi to 15 psi (21 kPa to 103 kPa)
Supply Pressure: 16-21 psi (110-145 kPa)

Product Number	Number of Pipes	Sensor Range	Mounting	Description	Comments
HP971A1008	1 or 2	15 to 75% RH	Vertical or Horizontal Wall Mounting or Mounted in Duct Sampling Chamber	Pneumatic Humidity Sensor, 15 to 75% RH range	Order Cover Separately
HP971A1024	1 or 2	15 to 85% RH	Vertical or Horizontal Wall Mounting or Mounted in Duct Sampling Chamber	Pneumatic Humidity Sensor, 15 to 85% RH range	Order Cover Separately

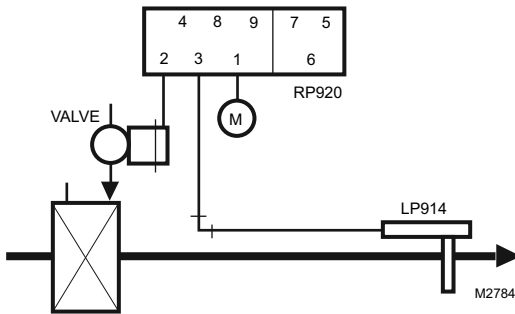
LP914 Pneumatic Temperature Sensor



One-pipe, direct-acting temperature sensor used with RP908/ RP920 Controllers to provide proportional control of pneumatic valve or damper actuators. Rod and tube insertion element for duct, well, or through-the-wall mounting.

- Corrosion resistant.
- Continuous temperature indication available by using receiver gage.

LP914 Typical Piping Duct-Mounted Applications



Application Type: Temperature Sensor

Dimensions, Approximate: Body: 2 in. high x 2 1/2 in. wide
(Body: 51 mm high x 64 mm wide)

Action: Direct Acting

Airflow Usage: 0.019 scfm (540 sccm)

Connections: Push-on barb for 5/32 in. (4 mm) and 1/4 in. (6 mm) O.D. tubing

Maximum Operating Temperature: 265 F (129 C)

Maximum Operating Pressure: 25 psi (172 kPa)

Output Pressure Range: 3 psi to 15 psi (21 kPa to 103 kPa)

Supply Pressure: 18 psi (124 kPa)

Accessories:

315046A Well, 1/2 NPT Copper, 15 1/2 in. (392 mm) long

315046B Well, 1/2 NPT Copper, 7 1/2 in. (191 mm) long

315904A Well, 1/2 NPT Stainless Steel, 15 7/16 in., 394 mm

315904B 1/2 in. NPT stainless steel Well, 7 5/16 in. (186 mm) long

311085/0107 Sunshield for LP914A1011

Replacement Parts:

14004664-001 0.36 inch diameter Wool felt filter

315602 Inner Filter

Product Number	Number of Pipes	Sensor Element	Element Length		Temperature Sensing Range		Mounting
			(in.)	(mm)	(F)	(C)	
LP914A1003	1	Rod and tube	15 in.	381 mm	-40 F to +160 F	-40 C to +71 C	Duct mount
LP914A1011	1	Rod and tube	27 in.	686 mm	-40 F to +160 F	-40 C to +71 C	Wall
LP914A1029	1	Rod and tube	15 in.	381 mm	40 F to 240 F	5 C to 115 C	Well
LP914A1045	1	Rod and tube	7 in.	178 mm	-40 F to +160 F	-40 C to +71 C	Duct mount
LP914A1052	1	Rod and tube	7 in.	178 mm	40 F to 240 F	5 C to 115 C	Well
LP914A1060	1	Rod and tube	7 in.	178 mm	-40 F to +160 F	-40 C to +71 C	Well
LP914A1144	1	Rod and tube	15 in.	381 mm	25 F to 125 F	-4 C to +52 C	Duct mount
LP914A1151	1	Rod and tube	15 in.	381 mm	-40 F to +160 F	-40 C to +71 C	Duct mount
LP914A1177	1	Rod and tube	15 in.	381 mm	40 F to 240 F	5 C to 115 C	Well
LP914A1193	1	Rod and tube	6 1/2 in.	165 mm	-40 F to +160 F	-40 C to +71 C	Duct mount
LP914A1201	1	Rod and tube	6 1/2 in.	165 mm	40 F to 240 F	5 C to 115 C	Well
LP914A1235	1	Rod and tube	15 in.	381 mm	25 F to 125 F	-4 C to +52 C	Duct mount
LP914A1268	1	Rod and tube	15 in.	381 mm	40 F to 240 F	5 C to 115 C	Duct or Well mount

Temperature Sensors

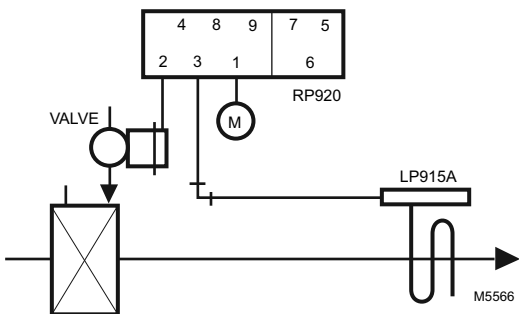
LP915 Pneumatic Temperature Sensor



One-pipe, direct-acting temperature sensor used with RP908/ RP920 Controllers to provide proportional control of pneumatic valve or damper actuators. Averaging, liquid-filled element for duct mounting.

- Easily formed into variety of configurations to assure sensing of average temperatures.
- Continuous temperature indication available by using receiver gage.

LP915A Typical Piping Duct-Mounted Application



Application Type: Temperature Sensor
Dimensions, Approximate: 3 in. high x 1 7/8 in. wide x 1 1/2 in. deep (76 mm high x 44 mm wide x 33 mm deep)
Action: Direct Acting
Airflow Usage: 0.019 scfm (540 sccm)
Connections: Push-on barb for 5/32 in. (4 mm) and 1/4 in. (6 mm) O.D. tubing
Maximum Operating Temperature: 225 F (118 C)
Maximum Operating Pressure: 25 psi (172 kPa)
Output Pressure Range: 3 psi to 15 psi (21 kPa to 103 kPa)
Supply Pressure: 18 psi (124 kPa)

Accessories:
314439 Duct Mounting Clip for Averaging capillary

Product Number	Number of Pipes	Sensor Element	Element Length		Temperature Sensing Range		Mounting
			(ft)	(m)	(F)	(C)	
LP915A1044	1	Liquid-filled	18 1/2 ft	5.6m	0 F to 200 F	-18 C to +93 C	Duct mount
LP915A1051	1	Liquid-filled	8 7/8 ft	2.7m	0 F to 200 F	-18 C to +93 C	Duct mount
LP915A1077	1	Liquid-filled	18 1/2 ft	5.6m	25 F to 125 F	-4 C to +52 C	Duct mount

Temperature Sensors

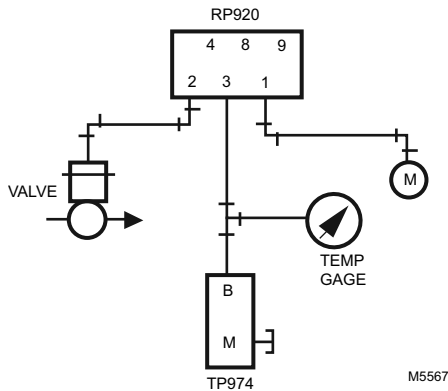
TP974 Pneumatic Temperature Sensor



One- or two-pipe direct-acting temperature sensor used with RP908/RP920 Controllers to provide proportional control of pneumatic valve and damper actuators.

- Plug-in air connections.
- High efficiency air filter.
- Bimetal element.
- Continuous temperature indication available by using receiver gage.

TP974A Typical Piping



Application Type: Temperature Sensor

Dimensions, Approximate: 3 1/4 in. high x 2 in. wide x 1 5/8 in. deep
(83 mm high x 51 mm wide x 41 mm deep)

Action: Direct Acting

Airflow Usage: 0.019 scfm (9 mL/s)

Maximum Operating Temperature: 110 F (43 C)

Maximum Operating Pressure: 25 psi (170 kPa)

Output Pressure Range: 3 psi to 15 psi (21 kPa to 103 kPa)

Supply Pressure: 16 to 25 psi (110 to 172 kPa)

Sensors

Product Number	Number of Pipes	Sensor Element	Temperature Sensing Range		Mounting	Description	Comments
			(F)	(C)			
TP974A2000	1 or 2	Bimetal	50 F to 100 F	10 C to 38 C	Vertical or Horizontal Wall Mounting	Pneumatic Temperature Sensor Direct Acting	Order Cover Separately

Pneumatic Sensor Accessories

Product Number	Description	Used With
309379	Screen for LP914	LP914
311085/0107	Sunshield for LP914A1011	LP914A1011
314439	Duct Mounting Clip for Averaging capillary	LP915
315046A	Well, 1/2 NPT Copper, 15 1/2 in. (392 mm) long	LP914
315046B	Well, 1/2 NPT Copper, 7 1/2 in. (191 mm) long	LP914
315602	Inner Filter	LP914, LP915; LP907
315904A	Well, 1/2 NPT Stainless Steel, 15 7/16 in., 394 mm	LP914
315904B	1/2 in. NPT stainless steel Well, 7 5/16 in. (186 mm) long	LP914

Pneumatic Sensor Replacement Parts

Product Number	Description	Used With
14002374-006	Restrictor Block Assembly, 0.007 in, 2 pipe for TP974A	TP974A
14004664-001	0.36 inch diameter Wool felt filter	LP915A