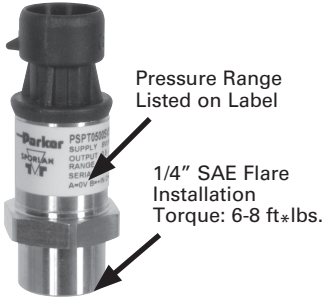




PRESSURE TRANSDUCER and TEMPERATURE SENSOR

INSTALLATION AND SERVICE INSTRUCTIONS - Pressure Transducers and Temperature Sensors are used in conjunction with Sporlan's Kelvin II family of controls or other controllers to control Electric Expansion Valves, Electric Discharge Bypass Valves, or Electric Evaporator Pressure Regulating Valves.

PRESSURE TRANSDUCER



PRESSURE TRANSDUCER			
Pressure Range	Material /Label Color	Item No.	Description
0 - 150 psia	Brass / Multi-Color	953291	PSPT0150AVSP-B
0 - 150 psig	Stainless Steel / Green	952572	PSPT0150SVSP-S
0 - 300 psig	Stainless Steel / Silver	952574	PSPT0300SVSP-S
0 - 500 psig	Stainless Steel / Yellow	952576	PSPT0500SVSP-S

CABLES FOR PRESSURE TRANSDUCERS

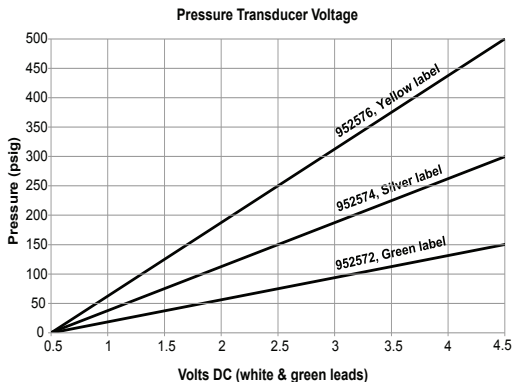
Cable Length ¹	Item No.
2 m	953192
5 m	953100

Controller Terminal	Old Pigtail Leads	New Hermetic Cable ²
1+ or 2+	Red	Black
1- or 2-	Black	Green
1S or 2S	Green	White







PRESSURE TRANSDUCER				
Pressure psig	DC VOLTAGE (white & green leads)			
	952572 0-150 psig Green Label	952574 0-300 psig Silver Label	952576 0-500 psig Yellow Label	
0	0.5	0.5	0.5	
25	1.2	0.8	0.7	
50	1.8	1.2	0.9	
75	2.5	1.5	1.1	
100	3.2	1.8	1.3	
125	3.8	2.2	1.5	
150	4.5	2.5	1.7	
175	—	2.8	1.9	
200	—	3.2	2.1	
225	—	3.5	2.3	
250	—	3.8	2.5	
275	—	4.2	2.7	
300	—	4.5	2.9	
325	—	—	3.1	
350	—	—	3.3	
375	—	—	3.5	
400	—	—	3.7	
425	—	—	3.9	
450	—	—	4.1	
475	—	—	4.3	
500	—	—	4.5	

¹ If the application requires a longer cable, Sporlan recommends extending leads with a maximum of 400 ft (18 awg) wire using Scotchlok™ UR connectors. The signal accuracy should be verified with any extension and an offset be added to the control when necessary.

² The cable color code differs from the previous model cable, but can still be used in its place.



TEMPERATURE SENSOR

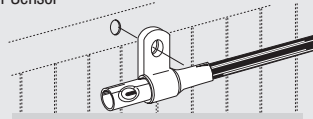
SPORLAN TEMPERATURE SENSORS				
Sensor Type	Resistance Rating	Cable Length ¹	Item No.	Illustration
Air	2k	10' (3.0 m)	952669	
Well	2k	12' (3.7 m)	952795	 Single Shielded Black Cable
	3k	6.6' (2.0 m)	805102 OBSOLETE	 Twin Insulated Black or White Wires
Surface	2k	12' (3.7m)	952662	 Single Shielded Black Cable
Surface or Air (Recommended)	3k	6.6' (2.0 m)	952551	
		20' (6.1 m)	952571	
Surface (High Temp)	98.6k	15' (4.6 m)	952565	

¹ If the application requires a longer cable, Sporlan recommends a maximum extension of 400 ft (18 awg) wire using Scotchlok™ UR connectors. The signal accuracy should be verified with any extension and an offset be added to the control when necessary.

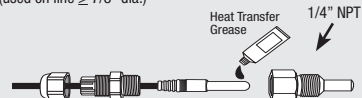
SPORLAN TEMPERATURE SENSOR TEMPERATURE VS. RESISTANCE

TEMP °F (°C)	Resistance (kohms)		
	Resistance Rating		
	2K	3K	98.6K
-40 (-40)	32.3	100	NA
-20 (-29.9)	18.5	49.5	NA
0 (-17.8)	11.1	25.6	NA
20 (-6.7)	6.7	13.9	NA
32 (0)	5.1	9.8	327.5
40 (4.4)	4.3	7.8	261.1
60 (15.6)	2.8	4.6	152.1
80 (26.7)	1.9	2.8	91.6
100 (37.8)	1.3	1.7	56.9
120 (48.9)	0.91	1.1	36.4
140 (60)	0.66	0.35	23.8
160 (71.1)	0.48	0.25	16
212 (100)	NA	NA	6.3
300 (148.9)	NA	NA	1.7

Air Sensor



Surface Sensor

Well Sensor
(used on line $\geq 7/8"$ dia.)

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