

Datasheet

RS Pro Temperature Probe, PTC, -19.9 to +150 °C

RS Stock No: **798-3441**



Product Details

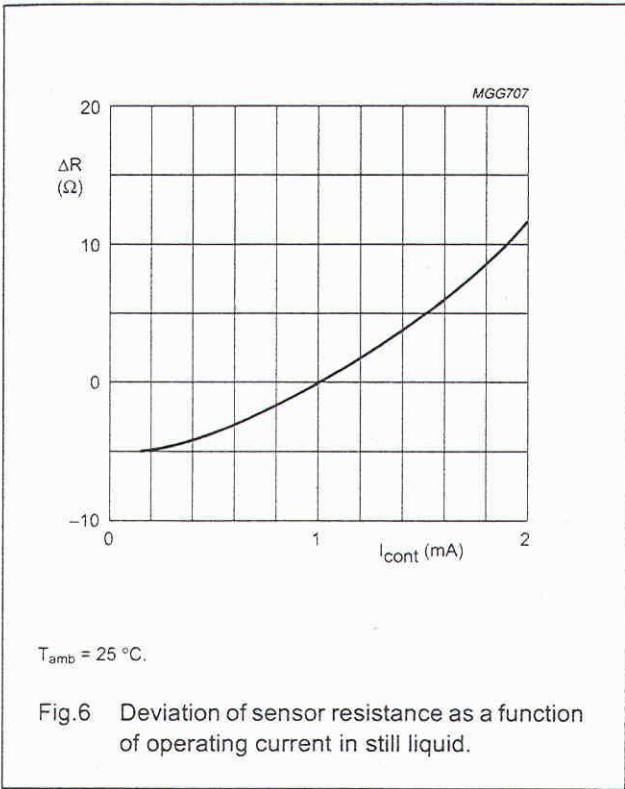
RS Pro PTC type temperature probe comes with stainless steel or thermoplastic shell. It has a operating temperature range of -19.9 to +150°C and is used with RS digital thermostats. The cable is available in various cable lengths and with air and liquid options.

Features and Benefits

- Silicone cable (stainless steel sensors) or PVC cable (thermoplastic sensors) options
- 1.5 m long
- Liquid type probe

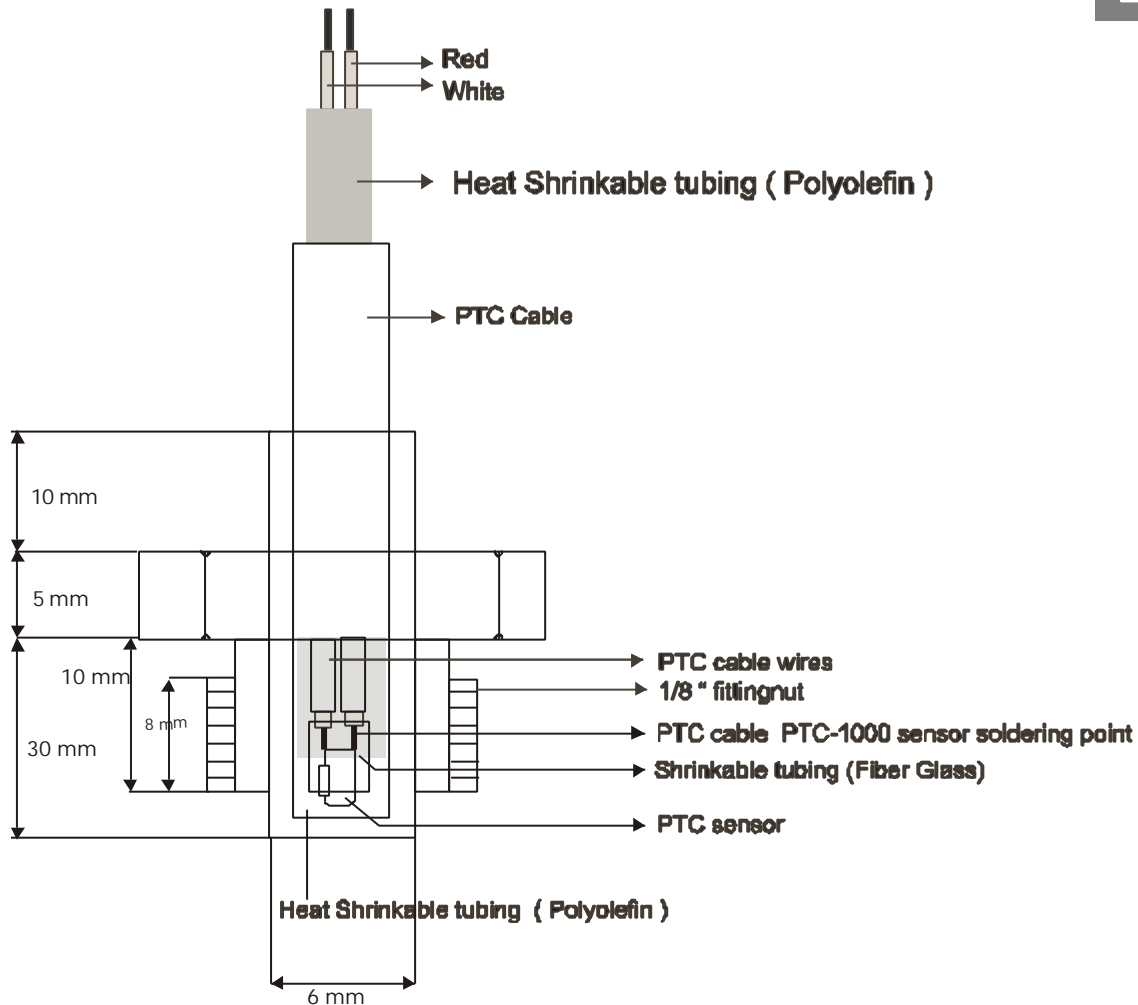
Specifications:

Best Accuracy	±1%
Cable Length	1.5 m
Maximum Temperature Measurement	+150°C
Probe Type	Liquid
Sensor Type	PTC



APPLICATION INFORMATION

SYMBOL	PARAMETER	CONDITIONS	TYP.	UNIT
ΔR_{25}	drift of sensor resistance at 25 °C	10000 hours continuous operation; $T_{amb} = 175\text{ }^{\circ}\text{C}$	1	Ω



PTC-1000 sensor: KTY 83-121

Protection tube material: Nickel coated brass

Dimensions

Length: 50 mm

Diameter: Internal 3,5 mm / external 6 mm

Cable

Silicone+Silicone, 2 x0,22 mm / silver-plated copper / wite+Rod Round / ext.diameter 3,5 mm max

Cable Length: 1,5 meter

Fittingnut

1/8" x 28" Hexagon 14mm

AMBIENT TEMPERATURE		TEMP. COEFF.	RESISTANCE			TEMP. ERROR (K)
(°C)	(°F)	(%/K)	(Ω)			
			MIN.	TYP.	MAX.	
-55	-67	0.97	480	495	510	±3.08
-50	-58	0.96	505	519	534	±2.99
-40	-40	0.93	556	571	586	±2.81
-30	-22	0.91	611	626	641	±2.62
-20	-4	0.88	670	685	699	±2.42
-10	14	0.85	732	746	760	±2.2
0	32	0.83	799	812	825	±1.97
10	50	0.80	868	880	893	±1.72
20	68	0.78	942	953	963	±1.45
25	77	0.76	980	990	1000	±1.31
30	86	0.75	1017	1028	1039	±1.44
40	104	0.73	1094	1107	1121	±1.7
50	122	0.71	1173	1190	1206	±1.98
60	140	0.69	1256	1276	1295	±2.27
70	158	0.67	1341	1365	1388	±2.58
80	176	0.65	1430	1458	1485	±2.9
90	194	0.63	1522	1554	1585	±3.24
100	212	0.61	1617	1653	1690	±3.59
110	230	0.60	1715	1756	1798	±3.95
120	248	0.58	1816	1863	1910	±4.34
125	257	0.57	1867	1917	1967	±4.53
130	266	0.57	1920	1973	2025	±4.73
140	284	0.55	2027	2086	2145	±5.14
150	302	0.54	2137	2203	2269	±5.57
160	320	0.52	2249	2323	2396	±6.02
170	338	0.51	2365	2446	2527	±6.47
175	347	0.51	2424	2509	2595	±6.71