

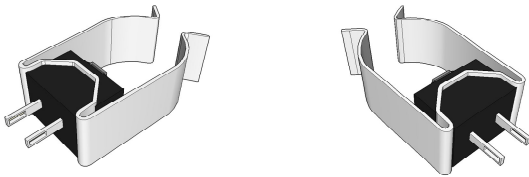
Order code	Manufacturer code	Description
26-7474	n/a	PIPE CLIP SENSOR 12-14MM (RC)
26-7470	n/a	PIPE CLIP SENSOR 20-22MM (RC)
26-7472	n/a	PIPE CLIP SENSOR 16-18MM (RC)

	Page 1 of 5
The enclosed information is believed to be correct, Information may change 'without notice' due to product improvement. Users should ensure that the product is suitable for their use. E. & O. E.	Revision A 04/07/2003

CH Series Pipe-Clip Temperature Sensor

Design & Function

The CH sensor has been designed to simplify the measurement and control of hot and cold water systems. It is a fast response sensor incorporated within a PBT housing and fitted with an integral spring steel clip and push on terminals



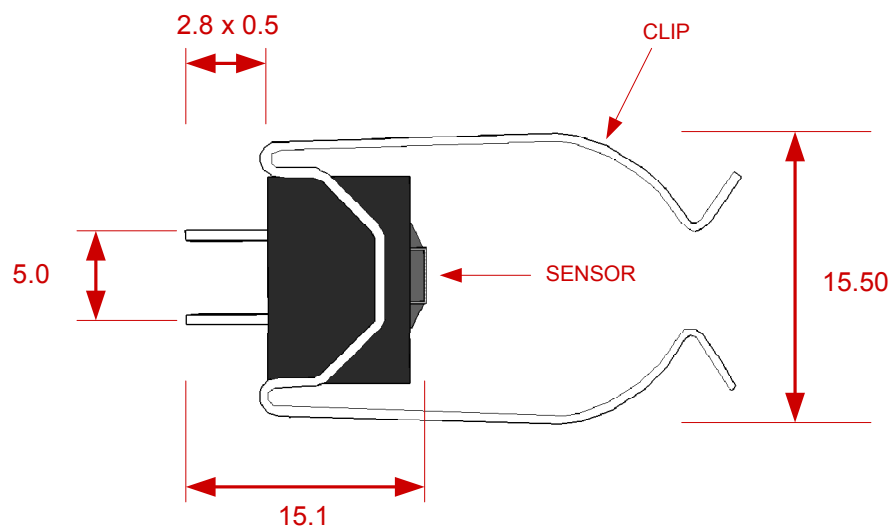
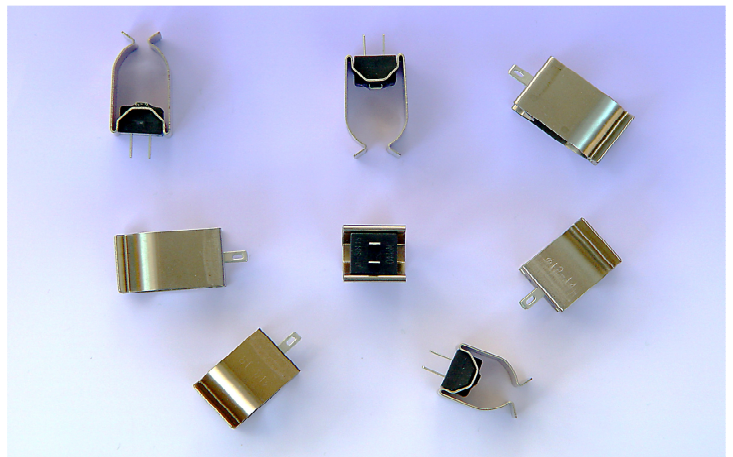
The spring clip can be used to mount the sensor onto metal pipes, where the sensing portion is held tight against the pipe surface. This gives a quick and accurate temperature measurement of the liquid inside the pipe and thus eliminates the need for any invasive holes, etc.

Features & Benefits

- Fast response ($T_c < 1s$)
- Simple to install
- High moisture resistance
- Fits pipe diameters 12 – 22mm
- Cost effective

Specifications

- Time Constant: < 1 second
- R25 Value: 10kohms
- B25/85 Value: $3969K \pm 1\%$
- R85 Accuracy: $\pm 1K(^{\circ}C)$
- Operating Temp Range: $-20/+120^{\circ}C$
- Di-Electric Strength: 500VAC for 1 Minute



Dimensions in mm



Clip用103FT1005

TEMPERATURE VS RESISTANCE CHARACTERISTICS [ITS-90]

Resistance 1.075k ohms at 85 Degree C

Resistance Tolerance $\pm 3.0\%$

B Value 3969K at 25/85 Degree C

B Value Tolerance $\pm 1.0\%$

Temp. (deg C)	Rmax. (k ohms)	Rst. (k ohms)	Rmin. (k ohms)	Tolerance (deg C)
0	35.52	33.32	31.23	-1.3 + 1.3
1	33.70	31.63	29.66	-1.3 + 1.3
2	31.99	30.04	28.18	-1.3 + 1.3
3	30.37	28.53	26.78	-1.3 + 1.3
4	28.85	27.12	25.47	-1.3 + 1.3
5	27.41	25.78	24.22	-1.3 + 1.3
6	26.05	24.51	23.05	-1.3 + 1.3
7	24.77	23.32	21.94	-1.3 + 1.3
8	23.56	22.19	20.89	-1.3 + 1.3
9	22.42	21.13	19.89	-1.3 + 1.3
10	21.34	20.12	18.95	-1.3 + 1.3
11	20.32	19.16	18.06	-1.2 + 1.3
12	19.34	18.26	17.21	-1.2 + 1.3
13	18.43	17.40	16.41	-1.2 + 1.3
14	17.56	16.59	15.65	-1.2 + 1.3
15	16.73	15.82	14.93	-1.2 + 1.3
16	15.96	15.09	14.25	-1.2 + 1.3
17	15.22	14.40	13.61	-1.2 + 1.3
18	14.52	13.74	12.99	-1.2 + 1.3
19	13.86	13.12	12.41	-1.2 + 1.3
20	13.23	12.53	11.86	-1.2 + 1.3
21	12.63	11.97	11.34	-1.2 + 1.3
22	12.07	11.44	10.84	-1.2 + 1.2
23	11.53	10.93	10.36	-1.2 + 1.2
24	11.02	10.45	9.913	-1.2 + 1.2
25	10.53	9.999	9.485	-1.2 + 1.2
26	10.07	9.566	9.078	-1.2 + 1.2
27	9.633	9.154	8.691	-1.2 + 1.2
28	9.217	8.763	8.324	-1.2 + 1.2
29	8.822	8.391	7.974	-1.2 + 1.2
30	8.446	8.037	7.640	-1.2 + 1.2
31	8.087	7.699	7.322	-1.2 + 1.2
32	7.746	7.377	7.019	-1.2 + 1.2
33	7.421	7.071	6.730	-1.2 + 1.2
34	7.112	6.779	6.455	-1.2 + 1.2
35	6.818	6.501	6.193	-1.2 + 1.2
36	6.537	6.236	5.943	-1.2 + 1.2
37	6.270	5.984	5.705	-1.2 + 1.2
38	6.015	5.743	5.478	-1.2 + 1.2
39	5.772	5.513	5.261	-1.2 + 1.2
40	5.541	5.294	5.054	-1.2 + 1.2
41	5.319	5.085	4.856	-1.2 + 1.2
42	5.108	4.885	4.667	-1.2 + 1.2
43	4.906	4.694	4.486	-1.2 + 1.2
44	4.714	4.511	4.314	-1.2 + 1.2
45	4.530	4.337	4.149	-1.2 + 1.2
46	4.354	4.171	3.991	-1.2 + 1.2
47	4.187	4.011	3.840	-1.1 + 1.2
48	4.026	3.859	3.696	-1.1 + 1.2
49	3.873	3.714	3.558	-1.1 + 1.2
50	3.727	3.575	3.426	-1.1 + 1.2



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B Value Tolerance $\pm 1.0 \%$

Temp. (deg C)	Rmax. (k ohms)	Rst. (k ohms)	Rmin. (k ohms)	Tolerance (deg C)
50	3.727	3.575	3.426	-1.1 + 1.2
51	3.587	3.442	3.300	-1.1 + 1.2
52	3.453	3.315	3.179	-1.1 + 1.2
53	3.325	3.193	3.063	-1.1 + 1.2
54	3.202	3.076	2.953	-1.1 + 1.2
55	3.084	2.964	2.846	-1.1 + 1.2
56	2.972	2.857	2.745	-1.1 + 1.2
57	2.864	2.755	2.647	-1.1 + 1.1
58	2.761	2.657	2.554	-1.1 + 1.1
59	2.662	2.562	2.464	-1.1 + 1.1
60	2.567	2.472	2.378	-1.1 + 1.1
61	2.477	2.385	2.295	-1.1 + 1.1
62	2.389	2.302	2.216	-1.1 + 1.1
63	2.306	2.222	2.140	-1.1 + 1.1
64	2.225	2.146	2.067	-1.1 + 1.1
65	2.148	2.072	1.997	-1.1 + 1.1
66	2.075	2.002	1.930	-1.1 + 1.1
67	2.004	1.934	1.865	-1.1 + 1.1
68	1.936	1.869	1.803	-1.1 + 1.1
69	1.870	1.806	1.743	-1.1 + 1.1
70	1.807	1.746	1.685	-1.1 + 1.1
71	1.747	1.688	1.630	-1.1 + 1.1
72	1.689	1.633	1.577	-1.1 + 1.1
73	1.633	1.579	1.526	-1.1 + 1.1
74	1.579	1.528	1.477	-1.0 + 1.1
75	1.528	1.478	1.430	-1.0 + 1.1
76	1.478	1.431	1.384	-1.0 + 1.1
77	1.430	1.385	1.340	-1.0 + 1.1
78	1.384	1.341	1.298	-1.0 + 1.1
79	1.340	1.299	1.257	-1.0 + 1.1
80	1.298	1.258	1.218	-1.0 + 1.1
81	1.257	1.218	1.180	-1.0 + 1.1
82	1.217	1.181	1.144	-1.0 + 1.0
83	1.179	1.144	1.109	-1.0 + 1.0
84	1.143	1.109	1.075	-1.0 + 1.0
85	1.107	1.075	1.043	-1.0 + 1.0
86	1.074	1.042	1.011	-1.0 + 1.1
87	1.042	1.011	0.9799	-1.0 + 1.1
88	1.011	0.9804	0.9501	-1.0 + 1.1
89	0.9808	0.9511	0.9214	-1.1 + 1.1
90	0.9519	0.9228	0.8937	-1.1 + 1.1
91	0.9241	0.8955	0.8671	-1.1 + 1.1
92	0.8972	0.8692	0.8413	-1.1 + 1.1
93	0.8712	0.8438	0.8165	-1.1 + 1.2
94	0.8461	0.8192	0.7925	-1.1 + 1.2
95	0.8219	0.7955	0.7693	-1.2 + 1.2
96	0.7984	0.7726	0.7470	-1.2 + 1.2
97	0.7758	0.7505	0.7254	-1.2 + 1.2
98	0.7539	0.7291	0.7045	-1.2 + 1.2
99	0.7328	0.7085	0.6844	-1.2 + 1.3
100	0.7123	0.6885	0.6649	-1.2 + 1.3



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100	0.7123	0.6885	0.6649	-1.2 + 1.3
101	0.6927	0.6694	0.6462	-1.3 + 1.3
102	0.6738	0.6509	0.6282	-1.3 + 1.3
103	0.6554	0.6329	0.6107	-1.3 + 1.3
104	0.6376	0.6156	0.5938	-1.3 + 1.4
105	0.6204	0.5989	0.5775	-1.3 + 1.4
106	0.6038	0.5826	0.5617	-1.3 + 1.4
107	0.5877	0.5669	0.5464	-1.4 + 1.4
108	0.5721	0.5517	0.5316	-1.4 + 1.4
109	0.5570	0.5370	0.5173	-1.4 + 1.4
110	0.5424	0.5228	0.5034	-1.4 + 1.5
111	0.5282	0.5090	0.4901	-1.4 + 1.5
112	0.5146	0.4957	0.4771	-1.5 + 1.5
113	0.5013	0.4828	0.4646	-1.5 + 1.5
114	0.4885	0.4704	0.4525	-1.5 + 1.5
115	0.4760	0.4582	0.4407	-1.5 + 1.6
116	0.4640	0.4465	0.4293	-1.5 + 1.6
117	0.4523	0.4351	0.4183	-1.5 + 1.6
118	0.4409	0.4241	0.4076	-1.6 + 1.6
119	0.4299	0.4134	0.3972	-1.6 + 1.6
120	0.4192	0.4030	0.3871	-1.6 + 1.6