

Reliability Testing



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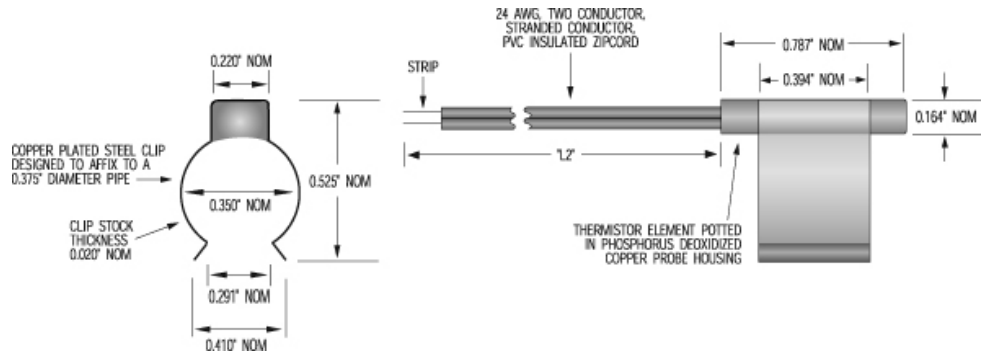
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**U.S. SENSOR TEST REPORT**  
**Thermistor Assembly Part Evaluation**  
**(H7183 Style Pipe Temperature Sensor)**



**Part Number:** H7183

**Part Description:** Pipe Temperature Sensor

**Test Specification:**

**SPECIAL**

**Test Condition (s):**

Parts were immersed in a 5% salt water solution, the solution temperature was cycled from ~+30°C to ~+80°C 14 cycles per day. During the duration of the test, 12 volts D.C. was applied continuously to each circuit consisting of a 20K Ohm resistor in series with each D.U.T.

Following the salt water immersion test above, the thermal shock test below was performed

Shock test (10 cycles 0°C salt water to +80°C salt water)

Test Start Date: 09/18/06

Test Completion Date: 10/18/06

Sample #	9/18/06 $\Omega$ Resistance @ 25°C	Accept/ Reject	10/16/06 $\Omega$ Resistance @ 25°C	Accept/ Reject	10/16/06 $\Omega$ Resistance @ 0°C	Accept/ Reject	Post Shock Test 10/16/06 $\Omega$ Resistance @ 25°C	Accept/ Reject
1	9944.4	A	9949.8	A	33008	A	9946.5	A
2	9959.2	A	9957.5	A	32929	A	9955.1	A
3	9927.8	A	9927.9	A	32785	A	9929.6	A
4	9971.9	A	9976.0	A	32889	A	9967.3	A
5	9899.9	A	9907.2	A	32715	A	9907.7	A
6	9935.4	A	9939.5	A	32827	A	9935.8	A
7	9890.8	A	9885.3	A	32574	A	9891.3	A
8	10049	A	10048	A	33194	A	10047	A
9	9902.4	A	9905.5	A	32724	A	9906.2	A
10	9917.7	A	9918.3	A	32684	A	9919.8	A
11	9938.1	A	9943.0	A	32765	A	9936.6	A
12	10044	A	10048	A	33288	A	10045	A

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