



- Radius contact on brass housing to optimize thermal response
- Suitable for Fast time response applications
- Clamp provides a tight fit to the pipe without the need for additional fastening and is easily field mounted
- Supplied with cable and connector
- Designed to fit Ø 23.5mm pipe
- RoHS Compliant

## DESCRIPTION

This assembly consists of a thermistor mounted in a brass housing to provide the user with fast and accurate thermal response. The device is potted in a Delrin housing using epoxy resin.

## FEATURES

- Suitable for fast time response applications
- Suitable for use in high humidity and high moisture conditions
- Custom tolerances available on request
- Available in a range of R/T curves
- Temperature range from -40°C to +105°C
- Supplied with cable and connector

## APPLICATIONS

- Central heating systems
- Gas combi boilers
- Refrigeration units
- Solar collectors
- Domestic showers

## PERFORMANCE SPECS

Parameters	Units	Value
Resistance @ +25°C	Ohms	10,000
Tolerance @ +25°C	%	± 2
Beta Value 25/85	K	3976
Tolerance on Beta Value	%	± 2
Time Response in application	Seconds	<3
Dissipation Constant	mW/°C	5
Insulation Resistance (Min. of 100Mohms for 1 Sec.)	Volts	500

# Pipe Clamp Temperature Sensor

## MECHANICAL DETAILS

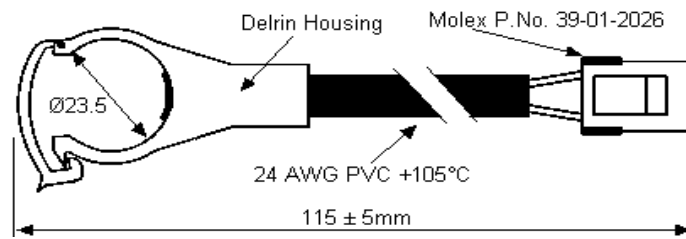


Figure 1: Pipe clamp temperature sensor

## RESISTANCE V TEMPERATURE TABLE

Temp. °C	Ohms	Temp. °C	Ohms	Temp. °C	Ohms	Temp. °C	Ohms
-40°C	336,108.9	-9°C	52,385.5	22°C	11,419.9	53°C	3,215.8
-39°C	314,563.2	-8°C	49,638.0	23°C	10,922.7	54°C	3,098.0
-38°C	294,533.7	-7°C	47,050.8	24°C	10,449.8	55°C	2,985.2
-37°C	275,905.0	-6°C	44,613.6	25°C	10,000.0	56°C	2,877.0
-36°C	258,570.8	-5°C	42,316.9	26°C	9,572.0	57°C	2,773.3
-35°C	242,433.7	-4°C	40,151.8	27°C	9,164.7	58°C	2,673.9
-34°C	227,404.0	-3°C	38,110.1	28°C	8,777.0	59°C	2,578.6
-33°C	213,399.4	-2°C	36,184.1	29°C	8,407.7	60°C	2,487.1
-32°C	200,344.0	-1°C	34,366.7	30°C	8,056.1	61°C	2,399.4
-31°C	188,167.9	0°C	32,651.0	31°C	7,721.0	62°C	2,315.2
-30°C	176,806.9	1°C	31,030.9	32°C	7,401.7	63°C	2,234.4
-29°C	166,201.8	2°C	29,500.5	33°C	7,097.3	64°C	2,156.8
-28°C	156,297.9	3°C	28,054.4	34°C	6,807.1	65°C	2,082.3
-27°C	147,044.8	4°C	26,687.5	35°C	6,530.3	66°C	2,010.8
-26°C	138,396.1	5°C	25,395.1	36°C	6,266.2	67°C	1,942.1
-25°C	130,308.9	6°C	24,172.6	37°C	6,014.3	68°C	1,876.0
-24°C	122,743.5	7°C	23,015.9	38°C	5,773.8	69°C	1,812.6
-23°C	115,663.2	8°C	21,921.2	39°C	5,544.2	70°C	1,751.6
-22°C	109,034.4	9°C	20,884.8	40°C	5,325.0	71°C	1,693.0
-21°C	102,825.5	10°C	19,903.2	41°C	5,115.6	72°C	1,636.6
-20°C	97,007.7	11°C	18,973.4	42°C	4,915.6	73°C	1,582.4
-19°C	91,554.1	12°C	18,092.2	43°C	4,724.4	74°C	1,530.2
-18°C	86,439.8	13°C	17,256.9	44°C	4,541.7	75°C	1,480.1
-17°C	81,642.0	14°C	16,464.9	45°C	4,367.0	76°C	1,431.8
-16°C	77,139.1	15°C	15,713.7	46°C	4,200.0	77°C	1,385.3
-15°C	72,911.6	16°C	15,000.9	47°C	4,040.2	78°C	1,340.6
-14°C	68,940.9	17°C	14,324.5	48°C	3,887.4	79°C	1,297.5
-13°C	65,210.1	18°C	13,682.4	49°C	3,741.1	80°C	1,256.1
-12°C	61,703.3	19°C	13,072.6	50°C	3,601.1	81°C	1,216.1
-11°C	58,405.9	20°C	12,493.3	51°C	3,467.0	82°C	1,177.7
-10°C	55,304.2	21°C	11,943.0	52°C	3,338.7	83°C	1,140.6

# Pipe Clamp Temperature Sensor

84°C	1,104.9	90°C	916.0	96°C	763.6	102°C	640.0
85°C	1,070.5	91°C	888.3	97°C	741.2	103°C	621.8
86°C	1,037.3	92°C	861.5	98°C	719.6	104°C	604.2
87°C	1,005.3	93°C	835.8	99°C	698.6	105°C	587.1
88°C	974.4	94°C	810.9	100°C	678.4		
89°C	944.7	95°C	786.8	101°C	658.9		

## ORDERING INFORMATION

Part Number	Description	$\Omega$ @25°C	MOQ
10K3D591	Pipe clamp temperature sensor	10,000	1000*

\* For quantities less than Minimum Order Quantity – contact distribution

## 联系方式



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