



NTC THERMISTORS: TYPE A919Y-a

DESCRIPTION:

Unitherm Thermistor Sensors enclosed in heat sealed plastic are encapsulated into a plastic luer to form a leakproof unit composed of inert, non-contaminating materials which are compatible with approved FDA materials. An electrical connector is molded in for convenient electrical hook-up on laboratory bridges or voltage divider circuits (depending on application). The sensor may be ethylene oxide sterilized. The A919Y-a Fluid Temperature Sensor is a small, high volume, low cost unit. The size is approximately 2.16" (55 mm) long and 1.16" (29 mm) high. When used in an intravenous or similar line it can be installed as rapidly as a hypodermic needle.

APPLICATIONS:

Ultrastable and very sensitive to even small temperature changes, the A919Y-a enables the user to obtain rapid, accurate and repeatable temperature measurements in moving or static streams without contaminating the stream or interfering with the flow. The standard sensor is suitable for use in the laboratory, test situations and disposable medical research products.



TEMPERATURE VS. THERMISTOR RESISTANCE FOR STANDARD A919Y-A SENSORS

Degrees C.	Resistance in Ohms	Degrees C.	Resistance in Ohms	Degrees C.	Resistance in Ohms	Degrees C.	Resistance in Ohms
0.00	56341.02	12.50	32931.96	25.00	20000.00	37.50	12579.79
0.50	55100.98	13.00	32258.53	25.50	19619.70	38.00	12357.11
1.00	53891.82	13.50	31600.79	26.00	19247.70	38.50	12139.00
1.50	52712.66	14.00	30958.34	26.50	18883.81	39.00	11925.35
2.00	51562.71	14.50	30330.79	27.00	18527.82	39.50	11716.05
2.50	50441.16	15.00	29717.76	27.50	18179.56	40.00	11511.00
3.00	49347.23	15.50	29118.86	28.00	17838.82	40.50	11310.12
3.50	48280.17	16.00	28533.75	28.50	17505.43	41.00	11113.29
4.00	47239.27	16.50	27962.07	29.00	17179.21	41.50	10920.44
4.50	46223.79	17.00	27403.47	29.50	16859.98	42.00	10731.47
5.00	45233.07	17.50	26857.63	30.00	16547.59	42.50	10546.29
5.50	44266.43	18.00	26324.21	30.50	16241.87	43.00	10364.82
6.00	43323.24	18.50	25802.91	31.00	15942.65	43.50	10186.97
6.50	42402.85	19.00	25293.41	31.50	15649.79	44.00	10012.67
7.00	41504.66	19.50	24795.43	32.00	15363.13	44.50	9841.83
7.50	40628.07	20.00	24308.67	32.50	15082.52	45.00	9674.38
8.00	39772.52	20.50	23832.85	33.00	14807.83	45.50	9510.24
8.50	38937.45	21.00	23367.70	33.50	14538.91	46.00	9349.34
9.00	38122.30	21.50	22912.94	34.00	14275.62	46.50	9191.60
9.50	37326.56	22.00	22468.33	34.50	14017.84	47.00	9036.95
10.00	36549.71	22.50	22033.61	35.00	13765.44	47.50	8885.34
10.50	35791.26	23.00	21608.53	35.50	13518.29	48.00	8736.68
11.00	35050.72	23.50	21192.86	36.00	13276.27	48.50	8590.92
11.50	34327.63	24.00	20786.37	36.50	13039.25	49.00	8447.99
12.00	33621.52	24.50	20388.82	37.00	12807.13	49.50	8307.83
						50.00	8170.38

Interchangeability $\pm 0.25^{\circ}\text{C}$ from 0° to 30°C

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