



# HV AIR TEMPERATURE SENSOR DATASHEET

HV-300AT



Rev 1.0

The HV-300AT Air Temperature Sensor uses a high temperature, fast responding NTC thermistor. The thermistor body is glass-sealed coated with a insulating lacquer.

## Features

- Extreme High Temperature, high accuracy NTC thermistor
- Temperature Range: -40 DegC to 300 DegC
- 10k Ohms at 25 DegC
- High accuracy over a wide temperature range
- Exceptional thermal shock performance
- Compact Design
- 1/8 NPT Thread
- DTM sealed 3 Way Connector(mating end also supplied)
- Fully potted for a waterproof seal.

## Pinout

## Calibration

The ECU Pin voltage is with a 1k Pullup and 100k Pulldown which is standard on most ECUs.

Temp (oC)	Temp (oF)	Ohms (kOhms)	ECU Pin Voltage
-40	-40	212.500	4.928
-30	-22	121.700	4.911
-20	-4	72.300	4.884
-10	14	44.360	4.842
0	32	28.050	4.782
10	50	18.220	4.695
20	68	12.140	4.577
25	77	10.000	4.505
30	86	8.281	4.422
40	104	5.769	4.225
50	122	4.099	3.987
60	140	2.967	3.712
70	158	2.184	3.406
80	176	1.633	3.082
90	194	1.239	2.752
100	212	0.954	2.429
110	230	0.743	2.122
120	248	0.586	1.841
130	266	0.467	1.587
140	284	0.377	1.365
150	302	0.307	1.172
160	320	0.252	1.004
170	338	0.209	0.863
180	356	0.175	0.744
190	374	0.147	0.640
200	392	0.125	0.555
210	410	0.107	0.483
220	428	0.092	0.421
230	446	0.079	0.366
240	464	0.069	0.323
250	482	0.06	0.283
260	500	0.052	0.247
270	518	0.044	0.211
280	536	0.038	0.183
290	554	0.032	0.155
300	572	0.027	0.131

## Ordering Information

Product	Part Number
HV Air Temperature Sensor	HV-300AT

**HV Electronics Ltd**  
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(See the www for contact information)

[www.hvelectronics.co.nz](http://www.hvelectronics.co.nz)