![BIOPAC Systems, Inc. logo] **PRODUCT SHEET**

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TSD302 – WIDE AIR RANGE TEMPERATURE TRANSDUCER (-10 °C TO +110 °C)

The TSD302 Wide Range Air Temperature Transducer measures from -10 deg C to +110 deg C and is designed for general air, ambient and in-flow, temperature measurements. This transducer has an expected response time of <10 seconds (in-flow) and is suitable for measuring air temperatures in open or closed systems.

TSD302 and TSD303 may be used with the Ventilator Validation System VVK100-SYS to convert volumes from ATPD (ambient temperature pressure, dry) to STPD (standard temperature pressure, dry).

The TSD302 temperature transducer connects directly to an AMI100D or an HLT100C.

SPECIFICATIONS

Range:	-10 to 110 °C
Scale:	10 mV/° C slope
Resolution:	0.033 °C (MP160—no smoothing)
Smoothed Resolution:	0.001 °C (MP160—1024 point smoothing)
Voltage Output:	-0.10 to +1.10 Volts
Linearity:	+/- 0.25 °C nominal
Accuracy:	+/- 0.2 °C nominal
Ensured Accuracy:	0.5 °C at 25 °C
Self-Heating:	0.05 °C in Still Air
Long Term Stability:	+/- 0.08 °C (1,000 hours)
Mounting:	Bulkhead 1/8″ NPT Nylon
Interface:	RJ11 Male Plug (6 pin) to AMI100D or HLT100C
Cable Length:	1.8 meters