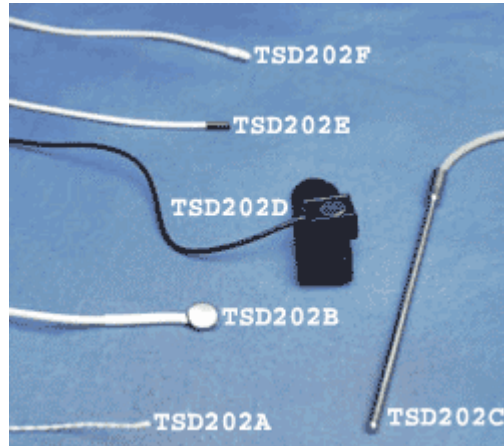


## TSD202 Series Temperature Transducers



### ***TSD202 SERIES***

- TSD202A*** The TSD202 employs a fast response thermistor, and is appropriate for use in locations where temperature changes rapidly, as with the temperature changes of inspired/expired breath. The TSD202A is useful for measuring skin temperature (in small areas) or airflow rate resulting from respiration, and is not designed for liquid immersion. For measuring skin (surface) temperature, simply tape the TSD202A to the location of interest. For measuring respiration rates, by monitoring airflow, place the TSD202A next to the mouth or nose so that inspired or exhaled air will intercept the tip of the TSD202A transducer.
- TSD202B*** The TSD202B is a “Banjo” style surface probe useful for measuring surface temperature. The “Banjo” design allows efficient skin temperature measurements on a variety of body locations. The TSD202B is not designed for liquid immersion. For measuring skin (surface) temperature, simply tape the TSD202B to the location of interest.
- TSD202C*** The TSD202C encases the internal thermistor in a stainless steel, waterproof housing, and is designed for liquid immersion and other temperature measurement applications where ruggedness is required and fast response is not critical.
- TSD202D*** The TSD202D is a modified TSD202B, with a housing that conforms to curved skin surfaces and includes a stretchy Velcro® strap for easy attachment to the fingers or toes. The “Banjo” design allows efficient skin temperature measurements. The TSD202D is not designed for liquid immersion. For measuring skin (surface) temperature, simply tape the TSD202D to the location of interest. Insert the two blue lead transducer pin plugs into the two SKT100C inputs labeled XD CR. Either blue lead can be connected to either XD CR input.
- TSD202E*** The TSD202E is a general-purpose waterproof thermistor.
- TSD202F*** The TSD202F is a small, flexible waterproof thermistor.

## TSD202 SERIES SPECIFICATIONS

Nominal Resistance:	2252 $\Omega$ @ 25°C
Maximum operating temperature:	60°C (when used with SKT100C)
Accuracy and Interchangeability:	$\pm 0.2^\circ\text{C}$ interchangeability over the range of 31°C - 45°C
Sterilizable:	Yes (Contact BIOPAC for details)
MRI Compatible:	Yes (no ferrous parts)
Response Time	
TSD202 A:	0.6 sec
TSD202 B:	1.1 sec
TSD202 C:	3.6 sec
TSD202 D:	1.1 sec
TSD202 E:	0.9 sec
TSD202 F:	1.1 sec
Size	
TSD202 A:	1.7 mm (diameter) x 5 mm (long)
TSD202 B:	9.8 mm (diameter) x 3.3 mm (high)
TSD202 C:	4 mm (diameter) x 115 mm (long)
TSD202 D:	16 mm (long) x 17 mm (wide) x 8 mm (high)
TSD202 E:	9.8mm (long) x 3.3mm(diameter)
TSD202 F:	9.8mm (long) x 3.3mm(diameter)
Cable length:	3 meters
Interface:	SKT100C—111
Compatibility:	YSI® series 400 (biomedical standard) temperature probes
TEL100 Compatibility:	SS6—179