

## FRP5 – Fast Response Thin Wall Tip Temperature Sensor

The FRP5 is one of our fastest sensing temperature sensors which uses a 2.1mm diameter sensing tip that is extended for maximum insertion into the fluid being measured. This helps to ensure this sensor has a very fast speed of response, typically with a time constant of less than 1s.

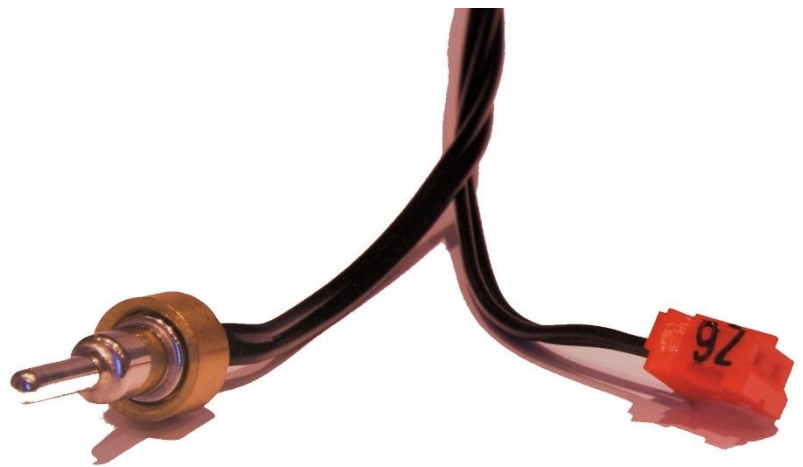
The “long tip” thin-wall sensor design is made from 316 stainless steel and is fitted with an integral brass collar to ease assembly. This makes them perfect for potable water applications such as coffee machines, boiling water taps as well as instantaneous water heaters and electric showers.

### Applications

- Coffee machines
- Instant water heater and hot taps
- Domestic showers
- Medical appliances

### Features

- Fast response design ( $T_c \leq 1s$ )
- Accuracy  $\pm 3\%$  possible to  $\pm 1\%$
- Interchangeability between NTCs
- Excellent long-term stability
- Operating range up to  $+200^\circ\text{C}$  possible



### Dimensions



### Options

NTC Thermistor Series	ET, NT, ATCS
Temperature Range	$-50^\circ\text{C}/+200^\circ\text{C}$ depending on NTC
Sensor Accuracy	$R25 \pm 3\%$ as standard
Sensor Material	316 stainless steel with brass collar
Lead wires	From 24~28AWG PVC, XLPE, FEP
Connectors	JST XHP-2, Molex mini fit Jr., etc.

Customised/ special versions available, please contact us with your requirements

For further information please contact us at [sales@atcsemitec.co.uk](mailto:sales@atcsemitec.co.uk)