

## FRP4 – Fast Response Stud Temperature Sensor

ATC Semitec's FRP4 stud-mount temperature probes consist of a fast-response NTC thermistor (or RTD element) mounted inside an M5 stud manufactured from either brass or PPS. The sensing element is mounted inside the threaded portion to maximise the speed of response to temperature change.

### Features:

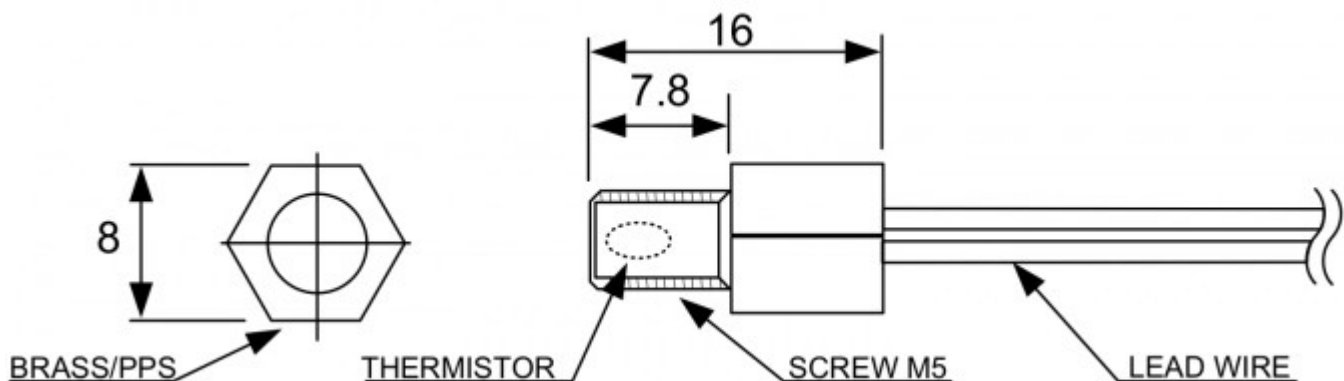
- Fast response ( $T_c \leq 3s$ )
- Excellent long-term stability
- Interchangeable NTCs
- Special versions available

### Operating temperature range

- $-50^{\circ}\text{C}$  to  $+180^{\circ}\text{C}$
- R25 tolerance  $\pm 3\%$ ,  $\pm 1\%$  possible



### Drawing:



All dimensions in mm

### Technical:

NTC Thermistor Series	ET, NT-4, ATCS
Temperature Range	$-50^{\circ}\text{C}$ to $+180^{\circ}\text{C}$ depending on NTC
Sensor Accuracy	R25 $\pm 3\%$ as standard, $\pm 1\%$ possible
Sensor Material	Brass or PPS
Lead Wires	From 24~28AWG PVC, XLPE, FEP
Connectors	JST XHP-2, Molex Mini-fit Jr., etc.

### Applications:

Coffee machines, bearing housings, smoke machines, block heaters, gas boilers

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