

## High Temperature Probes

Did you ever want to measure temperatures and pressures at the exit of a combustion chamber? We have several solutions if you want to use our probes at higher temperatures. These probes are also based on an **additive manufacturing process**, providing the same advantages as with our other probes.



### Details

Metal superalloys can be used at up to 1000 deg C (1800 °F). If higher temperatures are required, ceramics such as silicon nitride (SiN) can be used, capable of temperatures up to 1800 deg C (3250 °F). And as mentioned before, these highly customized solutions are made using additive manufacturing allowing for a high degree of customization.

### Specifications

Number of measurement heads	TBD by customer
Number of holes in measurement head	1, 3, 5, 7 or TBD by customer
Number temperature measurement heads	TBD by customer
Geometry	TBD by customer
Size	250mm (10 in.) standard, custom lengths possible
Min. tip diameter	3 mm (1/8")
Tip geometry	TBD by customer
Material	Ceramics, Inconel, high-temperature stainless steel
Mounting method	TBD by customer
Connections	TBD by customer
Temperature range	up to 1800°C (3250°F)
Angle measurement range	± 70° (depending on number of holes)
Angle measurement accuracy	Less than ± 1°
Velocity measurement range	3 m/s (10 ft/s) up to Mach 2
Velocity measurement accuracy	Less than ± 1 m/s (3 ft/s)
Temperature measurement accuracy	Depending on thermocouple
Max. frequency resolution	Up to 50 Hz (depending on probe geometry, frequency calibration possible)

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