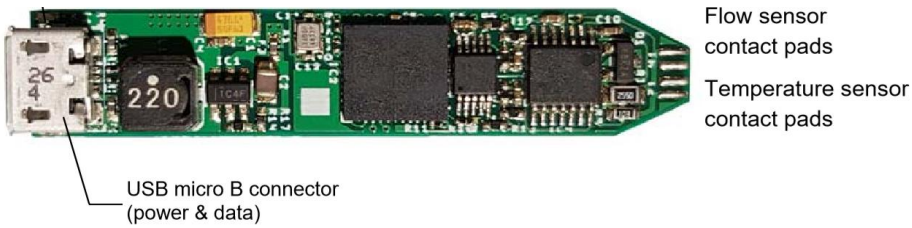
‘MICRO-CTA’ THERMAL ANEMOMETRY SYSTEM

Miniature, self-contained digital thermal anemometer – the world’s smallest available fully-integrated and temperature-compensated fluid velocity measurement system.

- Ultralow velocity range: reliable measurement of speeds in air as low as 10 mm/s
- Systems available as either analogue output units or fully-integrated USB-driven systems
- Robust, abrasion-resistant permanent sensing element
- Ultra-low calibration drift
- Integrated, automatic temperature compensation
- Surface array mountings available for high-resolution, nonintrusive measurement of wall velocities
- Compact, in-line package: system fits inside a 11 mm diameter sting



Specification

Velocity range	~ 10 mm/s to 120 m/s (custom extended range available)
Uncertainty	± 1 % relative
Compensated temperature range	0° to 70° C ambient for dry air
Calibration drift	< 2 % over long periods of use or storage
Storage temperature range	-40° to +85° C
Maximum relative humidity	95 %
Communications interface	Data streaming via USB2.0
Power	via USB, typical 160 mA, 800 mW
Data acquisition rate	Up to 400 Hz
Digital resolution	16-bit
System requirements[1]	64-bit Windows 7 or later

[1]Note that computer interface is not needed for stand-alone streaming operation

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Additional custom modifications available

- Velocity ranges up to local sonic
- Available as OEM unit or integrated into probe sting
- Supplied with purpose-designed robust probe element
- Battery power and wireless telemetry module for remote operation
- Custom enclosure design service
- Range of prong diameters and lengths available
- Waterproof - sealed sensors available, allowing operation in conductive media, seawater and other corrosive or harsh environments
- Custom software and driver development service available
- Extended product support and warranty available
- Bandwidths of up to 170 Hz possible

Dimensions