aerosensor

5-hole probe CA-129

5-hole probe with static ring for 3D velocity vector up to 45°

Developed primarily for the growing drone market, this five-hole probe combines compact dimensions with robust stainless steel construction. The standard design features a 5 mm probe head, an 8 mm shaft, and 1 mm pneumatic tubulations for connection to external pressure measurement hardware. Probe length and connection details can be tailored to suit your application.

By combining five discrete pressure measurements at the probe tip, the probe is able to resolve dynamic pressure, static pressure, pitch angle and yaw angle over a cone angle of up to ±45°. Typical repeatability is better than ±0.1°, with dynamic pressure accuracy better than ±0.2%.
Each probe is individually calibrated over five speeds, up to Mach 0.37, depending on the application. A typical calibration consists of approximately 1,800 measurements from our in-house calibration wind tunnel and is supplied as lookup tables for fast and straightforward implementation.

With bonded stainless steel construction, the probe is both robust and lightweight, with a typical mass of 35 g.

Specification:

Dynamic pressure accuracy:	+/-0.2%
Pitch / Yaw angle accuracy:	+/-0.1%
Angle range:	Up to +/-45°
Weight:	35g
Measurement:	Dynamic pressure, Static pressure, Pitch angle, Yaw angle

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