

# MICRO 5-HOLE PROBE ANEMOMETER



—DALIAN WINDTUNER TECHNOLOGY CO.,LTD.—

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The Micro 5-Hole Probe Anemometer (WTN MPS) is a compact and lightweight device for measuring airflow pressure, velocity, and direction, with built-in advanced algorithms for 5-hole probes, and is characterised by high accuracy, stability, and performance, mainly used for flow field tests such as aircraft attitude and velocity tests, impeller mechanical flow tests, and wind tunnel tests.

## EXCELLENT ACCURACY, STABILITY AND RELIABILITY

### FULL RANGE OF PARAMETERS HIGH PRECISION

Calibrated in standard wind tunnels allowing measurement of total pressure, static pressure, wind speed, airflow angle, atmospheric pressure, atmospheric temperature, and position information.

- ★ The velocity accuracy is better than 1 m/s
- ★ The angular accuracy is better than  $\pm 1^\circ$
- ★ Pressure comprehensive accuracy better than 0.5%FS

### SMALL SIZE HIGH CAPACITY

Compact, simple operation, convenient on-site measurement, real-time display, acquisition and storage of both hardware and software.

### MODULARITY STRONG COMPATIBILITY

Parallel connection of multiple devices and software compatibility with motion control system enable fully automated acquisition of the 3D flow field.

## PRODUCT PARAMETERS

PRODUCT INDICATORS	PARAMETERS/DESCRIPTIONS	PRODUCT INDICATORS	PARAMETERS/DESCRIPTIONS
Power supply	POE power supply (6~18)V wide range power supply	Sensor modules	5 pressure modules + 1 ambient pressure module 1 ambient temperature module + 1 triaxial gyroscope
Working temperature range	(0~60) °C	Ambient pressure module	(30~120)kPa(a), Maximum Permissible Error: $\pm 0.1\%$ FS
Storage temperature range	(-20~70) °C	Ambient temperature module	(-45~130) °C, Maximum Permissible Error: $\pm 0.3^\circ\text{C}$
Working environment humidity	Relative humidity <90%, non-condensing	Sampling frequency	$\leq 30\text{Hz}$ (support for self-defined adjustment by users)
Pressure synthesis accuracy	level0.1, level0.5	Communication	Adaptive 10/100M Ethernet with UDP/IP protocols

## OPTIONAL RANGE BANDS

WIND SPEED	(0~30)m/s	(10~40)m/s	$\geq 0.2\text{Ma}$	$\geq 0.5\text{Ma}$	$\geq 0.7\text{Ma}$	$\geq 0.9\text{Ma}$
PRESSURE	$\pm 500\text{Pa}$	$\pm 1\text{kPa}$	$\pm 10\text{kPa}$	$\pm 30\text{kPa}$	$\pm 50\text{kPa}$	$\pm 100\text{kPa}$
AIRFLOW ANGLE	$\pm 30^\circ$	$\pm 30^\circ$	$\pm 30^\circ$	$\pm 30^\circ$	$\pm 30^\circ$	$\pm 30^\circ$



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