ULTRA-MINIATURE HOT-WIRE ANEMOMETER SYSTEM

This ultra-miniature analogue constant-temperature hot-wire anemometry system is a fully self-contained, economical solution for high-bandwidth turbulence measurements with low noise susceptibility and minimal flow blockage. This unit is compatible with market-leading hot-wire probes.

- World's smallest self-contained hot-wire anemometry system
- Square-wave bandwidth of up to 40 kHz, with no possible instability
- Integrated square wave tester and bias setting
- Integrated 4th order analogue output filter
- Integrated analogue output gain
- Compatible with leading probe brands

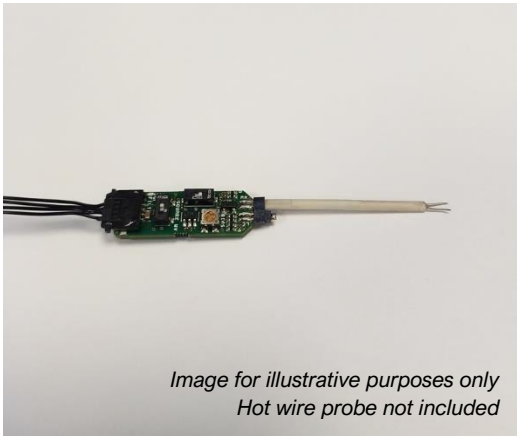

Image for illustrative purposes only
Hot wire probe not included

Specification

Product code	MUHW-1A	
Velocity range	min. 0 m/s[1]	max 120 m/s
Maximum bandiwdth[2]	40 kHz	
Wire cold resistance range (fixed)	3.5 Ω ± 1 Ω	
Overheat ratio (fixed)	1.7	
Power requirement	min. 500 mW idle	
Supply voltage (regulated)	min. 4.5 VDC	max 5.5 VDC
Output signal range	± 5 V, including analogue amplification	
Maximum operating temperature	125° C	
Output signal conditioning	Fixed 4th order active Butterworth low-pass filter	
Connector type (cable)	4-way Molex Pico-lock (15131-040)	
Connector type (probe)[3]	Suitable for 1 mm pitch, 0.45 mm dia. x 2 mm long straight prong leads	

[1] Limited by buoyancy plume effects; values below 1 m/s in air may be affected. May depend on fluid and conditions.
[2] Established by square-wave test
[3] Hot-wire probe not included.

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Additional custom modifications available:

- Compatible probe recommendation and supply
- Insulated/IP-68 enclosures for conductive fluids
- Extension leads and sockets and/or compatible probe-holders
- Extended product support and warranty

Dimensions