

# Magic Box

*Experience the enchantment of effortless flow measurement*

A highly accurate flow measurement system that is lightweight and exceedingly portable. The Magic Box utilizes a touchscreen user interface to guide the operator through standard 3D, 2D, and 1D test protocols and employs a PLC data acquisition system to automatically record the resultant data. Magic Box supports standard or Non-Nulling 3D testing.

## Benefits of the Magic Box

- Lightweight
- Accurate
- Portable



## SPECIFICATIONS

Software	
Operating System	industrial programmable logic controller
User Interface	touchscreen, three button RF remote controls (2)
Documentation	Magic Box users manual

Hardware	
Dimensions	11.0" H x 17.5" W x 16.5" D
Weight	14 lbs (17 lbs with auto purge)
Housing	heavy duty polypropylene case with O-ring sealed latched cover
Electrical Supply	120 VAC / 2A (240 VAC option available)
Operating Conditions	0°F to 135°F

Instrumentation	
Primary Air Temperature	type K thermocouple, 32°F to 1000°F, accuracy +/- 2°F
Velocity DP	0-10 IWC, accuracy +/-0.025% FS below 2 IWC, +/-0.10% FS above 2 IWC
Yaw Angle DP	+/- 5 IWC, accuracy +/-0.10% FS
Pitch Angle DP	+/- 2.5 IWC, accuracy +/-0.05% FS below 0.5 IWC, +/-0.10% FS above 0.5 IWC
Static Pressure	+/- 60 IWC, accuracy +/-0.25% FS

Note: All pressure transducers supplied with NIST traceable calibration.

Information	
Support	10 hours telephone technical support
Warranty	one (1) year parts and labor
Delivery	2-6 weeks, depending on options

## OPTIONAL EQUIPMENT



*Probes (3D, S-type)*



*Yaw angle encoder*

For quotes or more information:

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