

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. The Magic Box can be configured to perform either 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
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

Gas Temperature	type K thermocouple, 32°F to 1000°F, accuracy +/- 2°F
Static Pressure	+/- 60 IWC, accuracy +/-0.050% FS
Differential Pressure - Standard (EPA Method 2/2F)	
- 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
Differential Pressure - Non-Nulling 3D (ASME PTC 19.25)	
- Non-Nulling DP	+/- 10 IWC, accuracy +/-0.050 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



S-type Probe



3D Prism (M2F)



3D Spherical (M2F/NN)



3D Hemispherical (NN)

For quotes or more information: info@AirflowSciencesEquipment.com