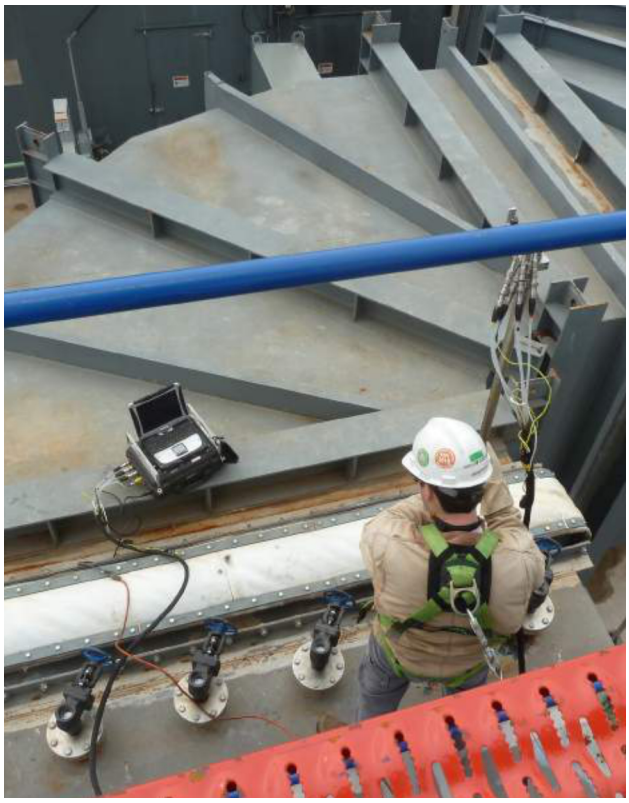
3DDAS™ Data Acquisition System

Quick, Easy and Accurate 3D Duct Flow Measurement

System combines rugged hardware with sophisticated, precise, easy-to-use software



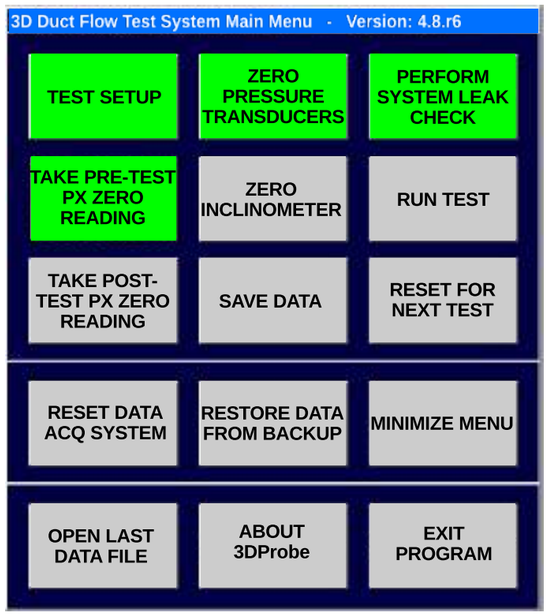
Makes duct testing easy and accurate

This custom data acquisition system has been utilized for duct and stack flow measurements for over a decade. The 3DDAS combines high accuracy instrumentation and data acquisition, rugged, field-ready construction, and our powerful, fully-featured, and easy-to-use software, 3DPROBE™. The system is fully compliant with EPA Methods 2 and 2F.

Airflow Sciences Equipment®

Powerful 3DProbe Program Ensures Accurate, Reliable Data

The 3DDAS uses program 3DPROBE to more accurately and efficiently perform 3D duct flow measurements. The program includes complete test configuration information, data recording and reduction, report generation, and error checking.



Main Menu Provides Easy, Intuitive Navigation Through Each Screen

- The 3DPROBE program guides the user through a test in an intuitive, step-by-step approach.
- All the screens in the program are only one step removed from the Main Menu.
- Results can be saved to Excel® and exported to EDR for EPA compliance testing.

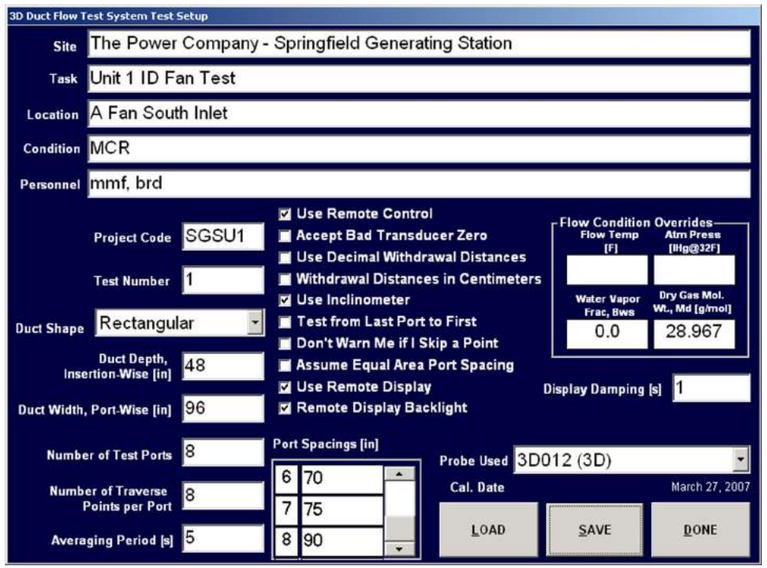
Easily Perform and Document Leak Checks

- Leak checks are performed in full compliance with EPA Methods 2 and 2F specifications.

Prism Head Probe

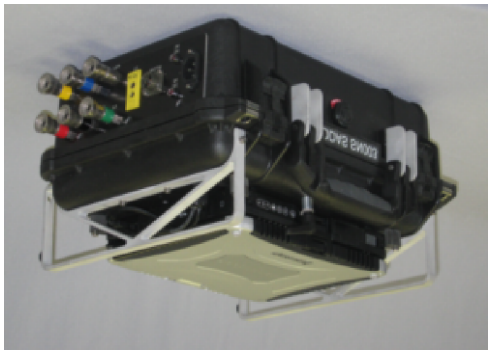
Set Up Screen Allows You to Choose Unique Specs for Each Test

- Duct Shape
- Duct Depth
- Duct Width
- Number of Ports
- Number of Traverse Points
- Probe Used
- Test Description
- 1D Probes (Pitot, S Type, Dirty Air)
- 2D Probe (S Type - Rotated)
- 3D Probes (Prism, Spherical)



Test Screen Takes You Through the Test Point-by-Point, Port-by-Port

- Real time and time-averaged results are displayed along with fully reduced data for the selected probe.
- Automatic generation of fully-formatted Excel test report at the end of each test.



SPECIFICATIONS

Software	
Operating System	Windows®
User Interface	Keyboard, Touchscreen, Three Button RF Remote Controls (2)
Test Programs	3DPROBE Program, MS Excel
Documentation	3DDAS and 3DPROBE Users Manual

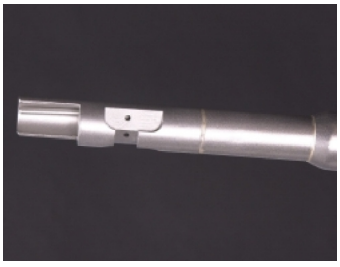
Hardware	
Dimensions	11.0" H x 17.5" W x 16.5" D (with optional computer)
Weight	22 Pounds (with optional computer)
Housing	Heavy duty polypropylene copolymer with O-ring sealed latched cover
Electrical Supply	120 VAC / 2A
Environment	25°F to 135°F

Instrumentation	
Primary Air Temperature	Type K-Thermocouple, 32°F to 1000°F, Accuracy +/- 2°F
Velocity DP	0-5 IWC, Accuracy +/-0.25% FS
Yaw Angle DP	+/- 2.5 IWC, Accuracy +/-1.0% FS
Pitch Angle DP	+/- 2.5 IWC, Accuracy +/-0.25% FS
Static Pressure	User-Specified Range, from +/- 5 IWC to +/- 100 IWC, Accuracy +/-0.25% FS
Data Acquisition System	16 Bit USB Based, 500V Electrical Isolation

Note: All pressure transducers supplied with NIST traceable calibration.

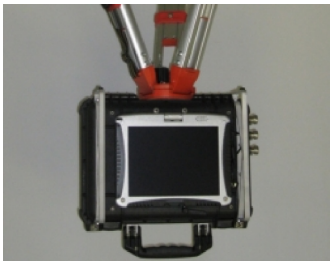
Information	
Support	10 hours telephone technical support
Warranty	One (1) Year Parts & Labor on DAS hardware and software. Manufacturer's warranty on computer hardware and non-ASE software.
Delivery	2-6 weeks, depending on options

OPTIONAL EQUIPMENT

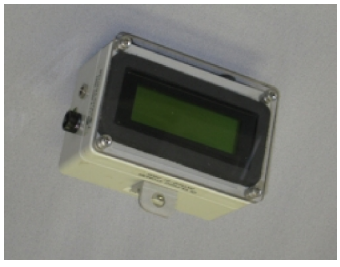


Probes (3D, S-type)

Yaw angle encoder



Tripod mount



Remote display

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