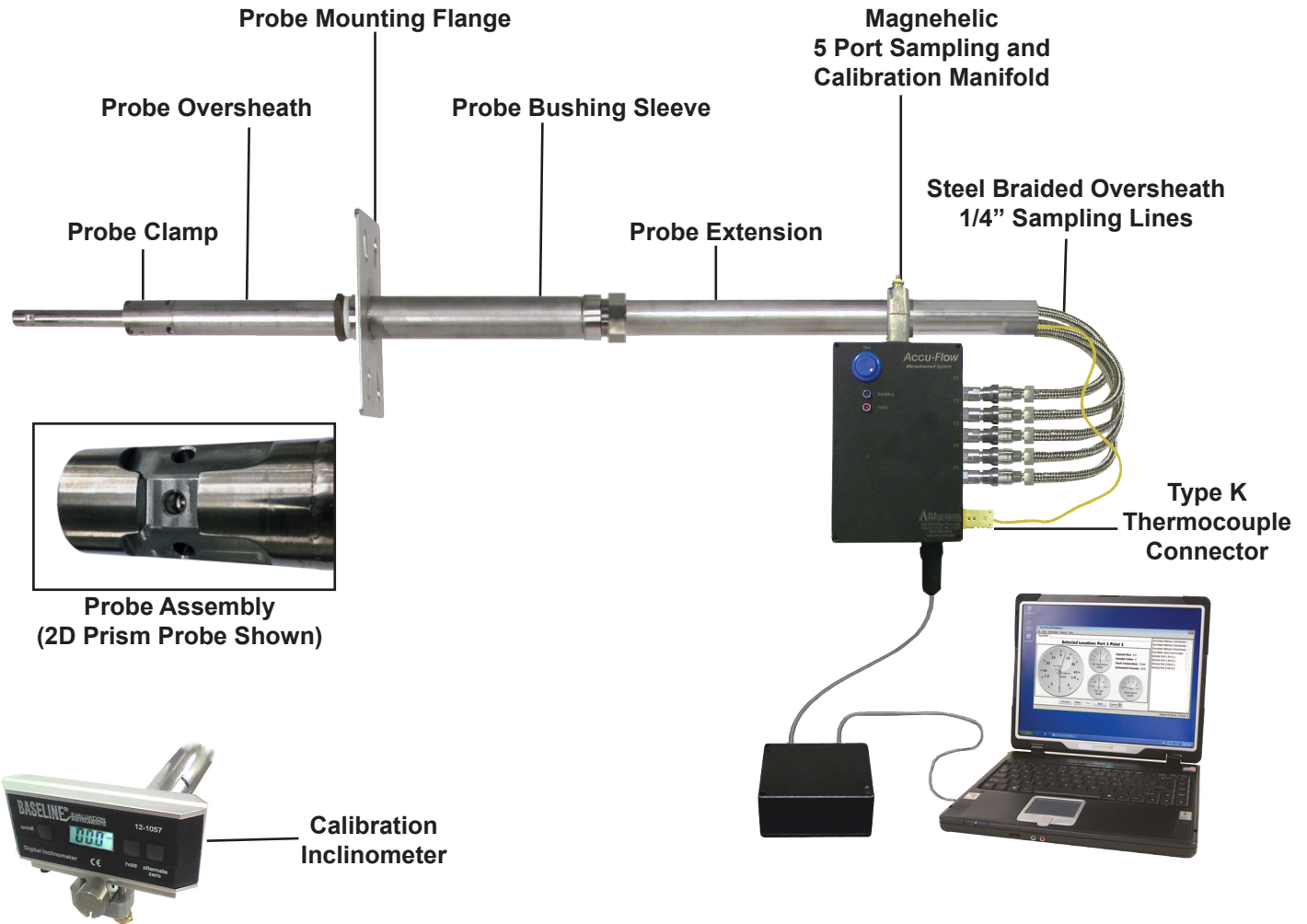


Accu-Flow

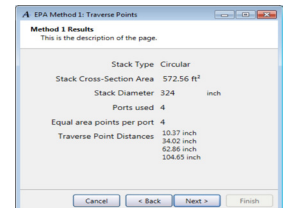
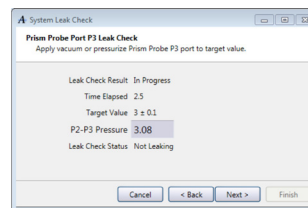
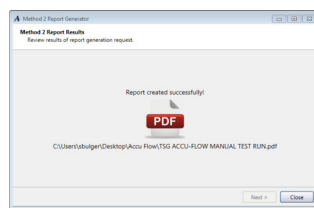
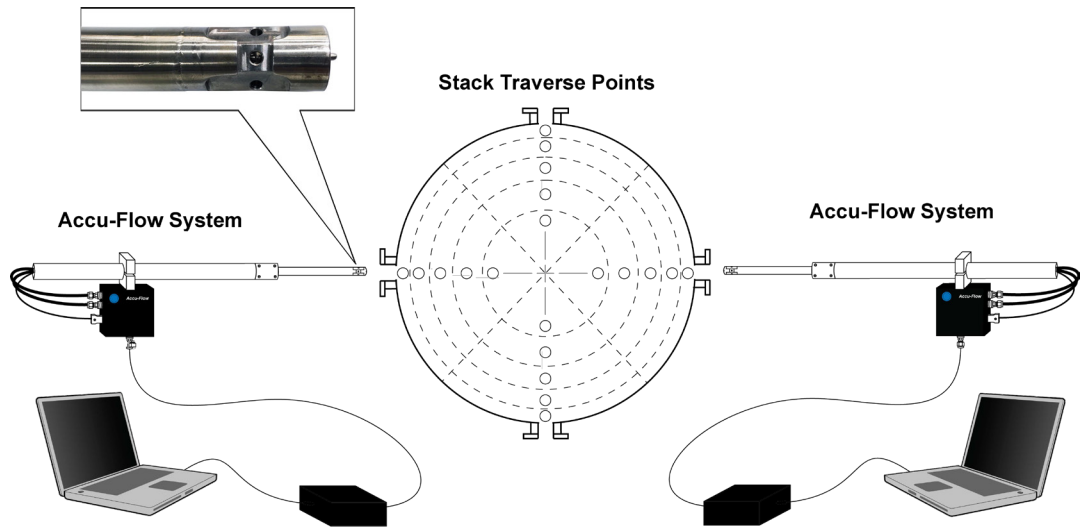
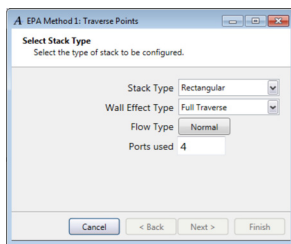
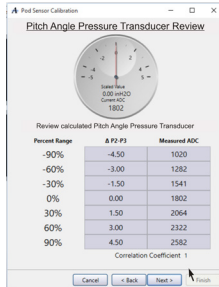
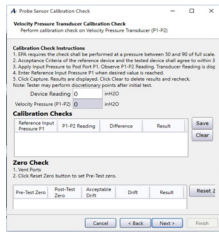
Measurement System
for Methods 2, 2F and 2G



The Apex Instruments Accu-Flow Measurement System is configured to use a standard S-Type pitot, a two-dimensional 3 hole prism-shaped probe or a three-dimensional 5 hole prism-shaped probe to accurately measure angular non-axial flow rates for Methods 2, 2F and 2G.

The system provides a means for testers to improve the measurement of volumetric flow rates under cyclonic flow conditions existing in stacks and ducts. Substantial cost savings may be realized by utilizing multiple pitots, thus, minimizing the time of flow audits and also through Accu-Flow test results providing data to prevent source operation at undesirable loads.

Flow Measurement System



Key Features:

- All sensors are enclosed within the Pod enclosure
- Pod is securely mounted directly to the probe extension
- Results are immediate, stable and accurate
- Larger pitot ports reduce potential plugging
- 1/4" teflon pressure lines provide rapid response rates versus standard 1/8" lines.

Key Advantages for the Source:

- Reduce operating costs
- Operate at more desirable loads
- Report lower emissions
- Save time by using automated system/multiple pitots

Key Advantages for the Tester:

- User friendly- rotate to yaw null- record the yaw angle and ΔP at each pre-determined sampling point
- Variant of Method 2
- Simplified calibration
- Automated calculations and data recording
- Install a single probe or 2 to 8 probes simultaneously
- Decrease testing time and minimize errors

Multiplexer Interface:

- Connects up to 8 pod units
- Enables bi-directional communications with host PC
- Isolates power supply and communications
- Contains electronic barometer

Pod Unit:

- Contains 3 transducers for 2D pitot measurement
- Isolated stack temperature thermocouple sensor
- 4 channel, 13 bit analog to digital convertor
- Digital yaw angle inclinometer

Specifications

Barometer:

- 17.5 to 2.5 inHg
- 600 to 1100 mbar

Stack Thermocouple:

- Type K
- 0-2000 degrees F
- -18-1093 degrees C

Pressure Transducers:

- P1-P2 +/- 5inH2O 12.7 cmH2O
- P2-P3 +/- 5inH2O 12.7 cmH2O
- P4-P5 +/- 5inH2O 12.7 cmH2O

Inclinometer:

- 0-360 degrees, 0.5 degree resolution

Power:

- Single pod powered by USB, 5V
- Multiple pods require 120VAC, 3A