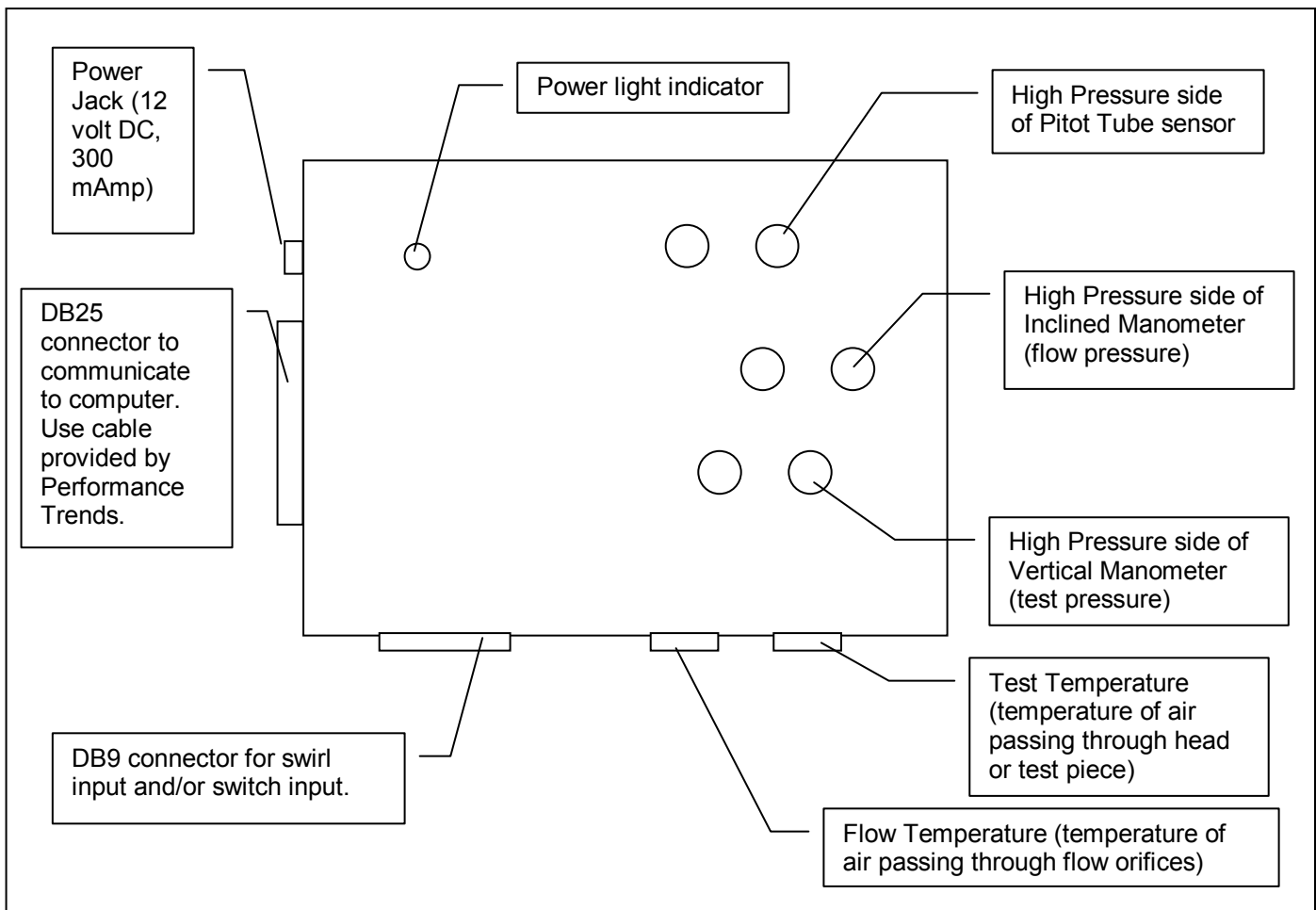
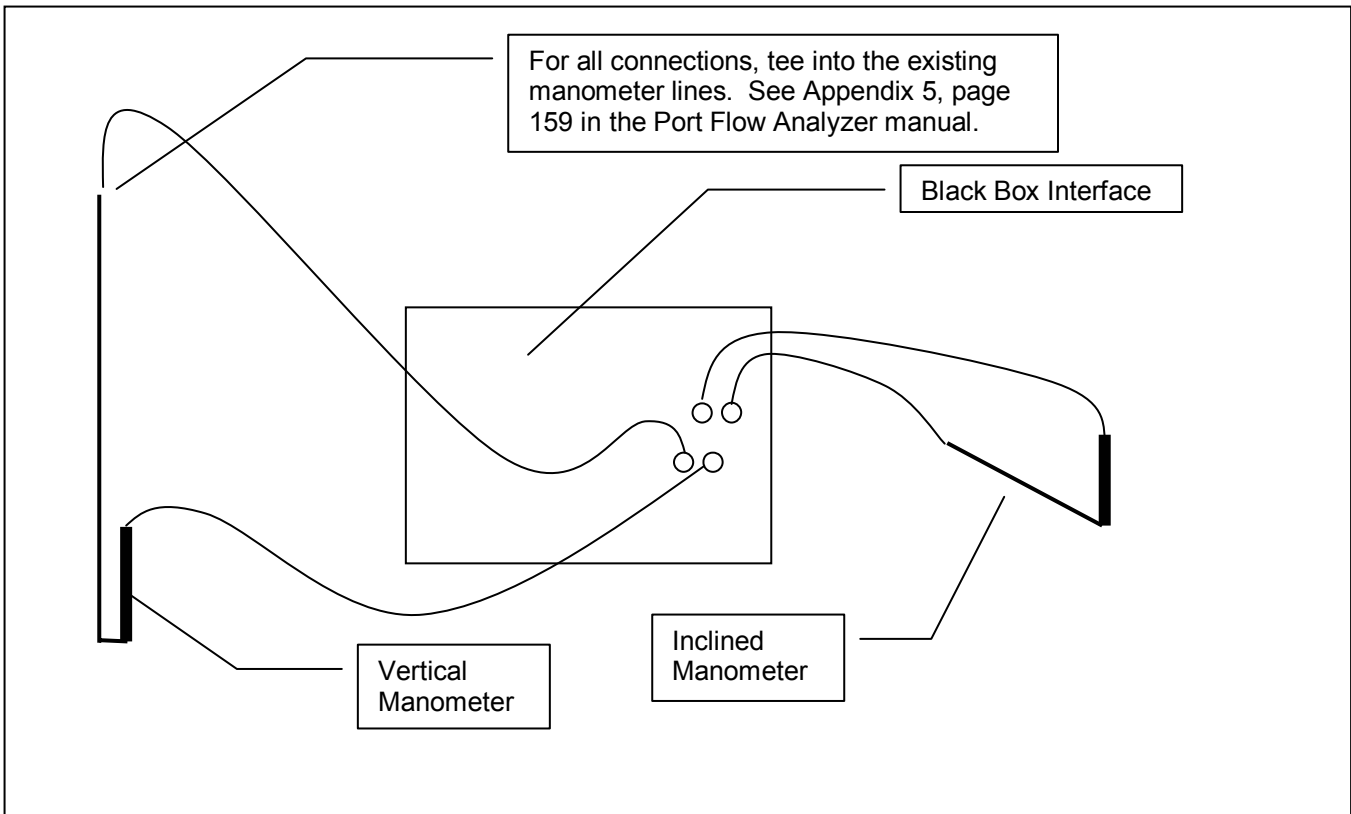


Performance Trends' "Black Box"

Instructions for Hookup to Flow Bench

Performance Trends' "Black Box" data logger will record data from your flow bench to greatly enhance your flow bench testing. The 2 figures below give an explanation of the various connections to the Black Box, and how it hooks up to a typical SF 600 or 300 or custom style flow bench.





After you hook up the Black Box, you must calibrate following the procedure outlined in Appendix 5, starting on page 159.

You must specify that you are using a Black Box Type of Electronics in the Port Flow Analyzer as shown in the menu to the right. You must also click on the “See Details (calibrations)” button to calibrate the sensors to match the manometers on your bench. See Page 41 in manual.

Flow Bench Specs menu in Port Flow Analyzer (page 41)

Flow Bench Specs - Metric

Back (ok) File Help

General Bench Specs

Type: Std SuperFlow 110

Use Temperature Correction: Yes

Rated Test Pressure, cm: 10

Inclined Flow Manometer

Full Scale Reading: 100

Full Scale Pressure, cm: 2.2

Linear Scale (like a ruler): No

Electronics

Type: Performance Trends Black Box

Com Port: Com 2

Readings to Average: 30

Other Data: None

See Details (calibrations)

Last Updated Time/Date: 8/28/1999 7:34 am

Flow Ranges

Standard Flow

Range #1 & 8

Range #2 & 9

Range #3

Range #4

Range #5

Range #6

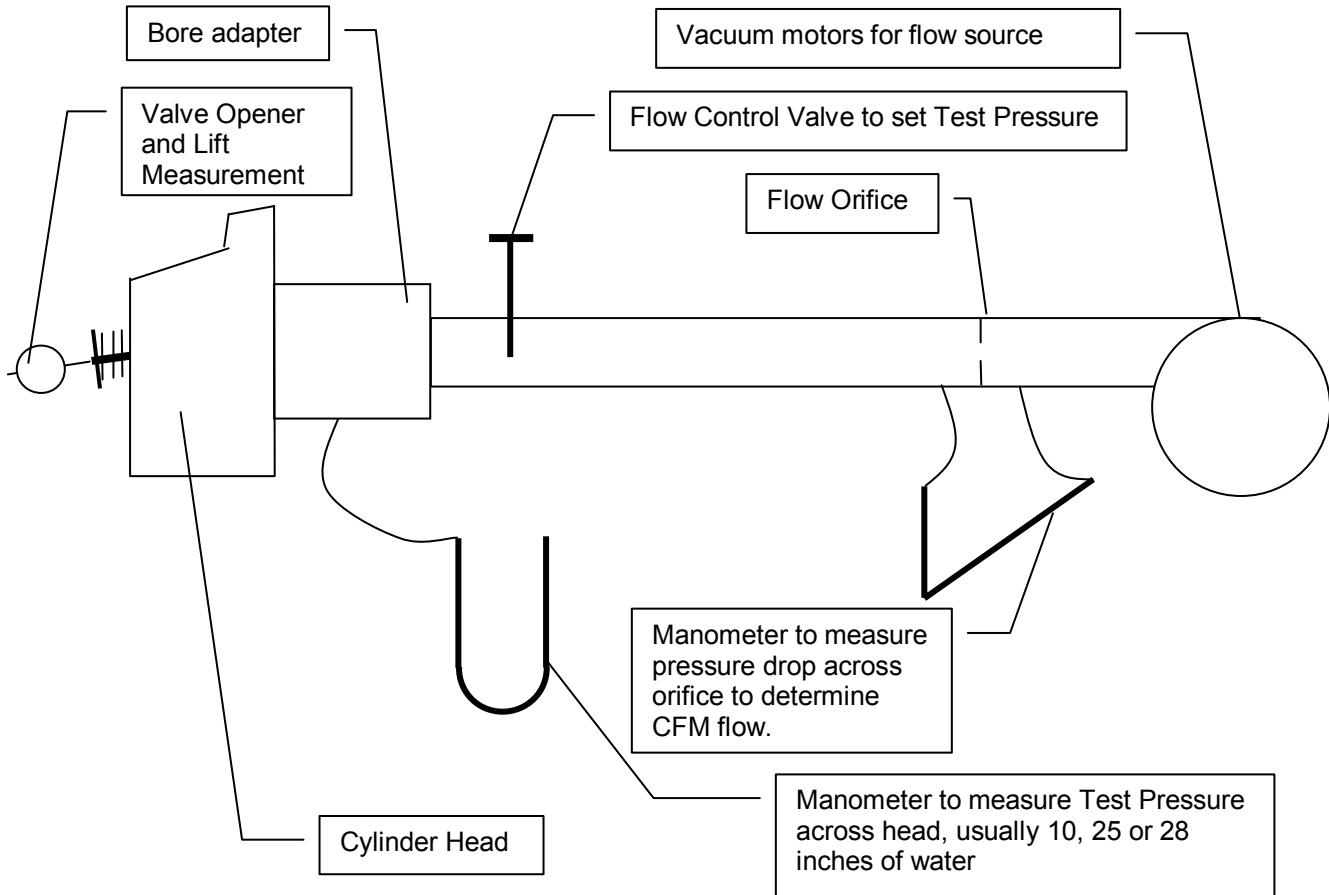
Range #7

Help

Click on the down arrow button to select the type of electronics you are using to record flow bench readings. Your choice here will affect which specs are enabled or disabled in this section. p 43

You must set Type to Black Box and then click on See Details to open up the Calibration screen to calibrate the Black Box.

Schematic of Typical Custom Flow Bench



For more information, visit www.performancetrends.com and check out:

Port Flow Analyzer (software)

Black Box (electronics)

Swirl Meter

Tumble Fixture

Black Box.doc