TA460 Menu Structure and Quick Reference

Application Note AF-145

Keypad Functions

ON/OFF Key	Press to turn the AIRFLOW TA460 on and off. During the power up sequence the display will show the following: Model Number, Serial Number, Software Revision and Last Date Calibrated.
Arrow (▲▼) Keys	Press to scroll through choices while setting a parameter. Pressing the ▲▼ keys simultaneously will lock the keypad to prevent unauthorized adjustments to the instruments. To unlock the keypad, press the ▲▼ keys simultaneously.
↵ (Enter) Key	Press to accept a value or condition.
Arrow (◄or ►) and Menu Soft Keys	Press arrow keys to change choices while setting a parameter. Press the Menu soft key to select the Menu selections, which are Display Setup, Pressure Zero, Settings, Flow Setup, Actual/Std Set up, Data Logging, Applications, Calibration and Printer.

Main Soft Keys

Next Test
- Increments to the next available test ID.

Menu
- Accesses the main and sub-menus

Stats
- Displays the average, minimum, and maximum readings of the current Test ID.
    - Statistics can also be viewed from the Data Logging menu.

Common Terms

Sample	Consists of all of the measurement parameters stored at the same time.
Test ID	A group of samples. The statistics (average, minimum, maximum, and count) are calculated for each test ID. The maximum number of test IDs is 100.
Time Constant	The time constant is an averaging period. It is used to dampen the display. If you are experiencing fluctuating flows, a longer time constant will slow down those fluctuations. The display will update every second, but the displayed reading will be the average over the last time constant period. For example, if the time constant is 10 seconds, the display will update every second, but the displayed reading will be the average from the last 10 seconds. This is also referred to as a "moving average".
Logging Interval	The logging interval is a frequency period that the instrument will log readings. For example, if the logging interval is set to 30 minutes, each sample will be the average of the last 30 minutes.

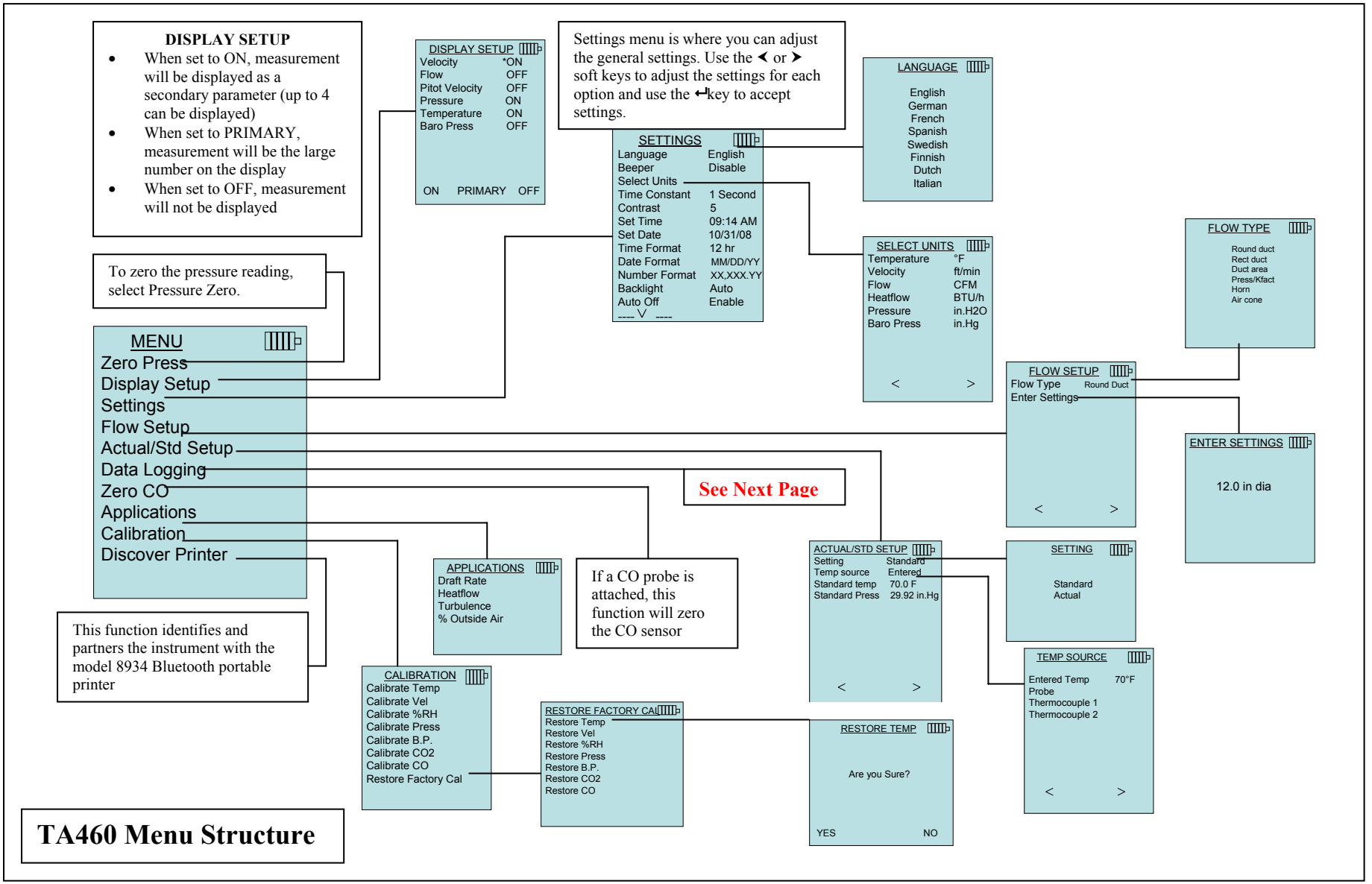
Log Mode/Log Settings

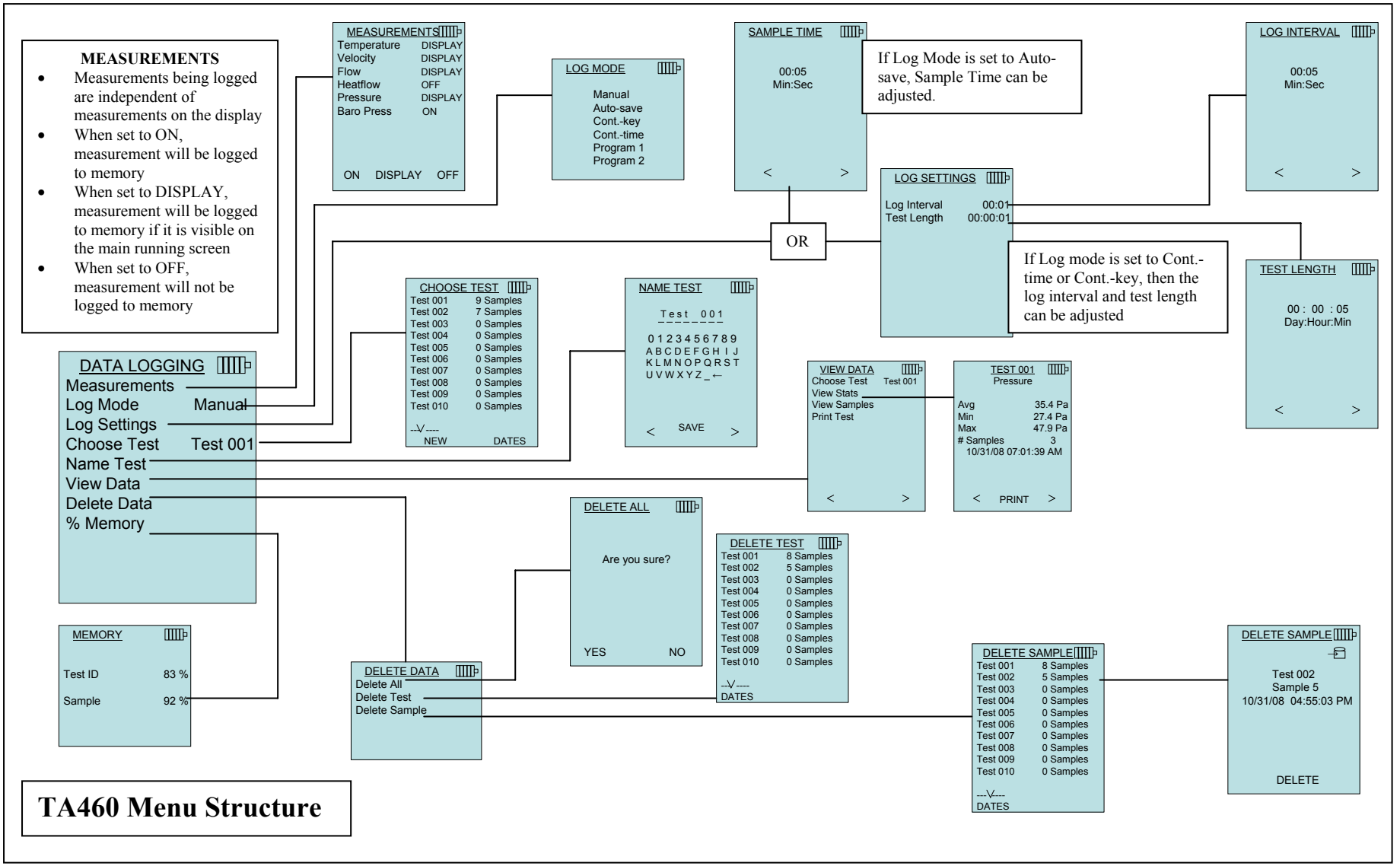
You can set Log Mode to Manual, Auto-save, Cont-key, Cont-time, Program 1 or Program 2.

- Manual mode does not automatically save data, but instead prompts the user to save a sample.
- In Auto-save mode, the user manually takes samples that are automatically logged.
- In Cont-key mode, the user starts taking readings and logging by pressing the ↵ key. The instrument will continue taking measurements until the ↵ key is pressed again.
- In Cont-time mode, the user starts taking readings by pressing the ↵ key. The instrument will continue taking samples until a set period of time has passed.
- Auto-save, Cont-Key and Cont-time modes have the following additional Log Settings:

Mode	**Log Settings**
Auto-save	Log Interval
Cont-key	Log Interval
Cont-time	Log Interval
	Test Length

- Pressing the ▲▼ keys simultaneously will lock the keypad to prevent unauthorized adjustments to the instruments. To unlock the keypad, press the ▲▼ keys simultaneously.


DISPLAY SETUP
When set to ON, measurement will be displayed as a secondary parameter (up to 4 can be displayed)
When set to PRIMARY, measurement will be the large number on the display
When set to OFF, measurement will not be displayed
DISPLAY SETUP
Velocity *ON
Flow OFF
Pitot Velocity OFF
Pressure ON
Temperature ON
Baro Press OFF
ON PRIMARY OFF
Settings menu is where you can adjust the general settings. Use the ➤ or ➤ soft keys to adjust the settings for each option and use the ↵key to accept settings.
SETTINGS
Language English
Beeper Disable
Select Units
Time Constant 1 Second
Contrast 5
Set Time 09:14 AM
Set Date 10/31/08
Time Format 12 hr
Date Format MM/DD/YY
Number Format XX,XXX.YY
Backlight Auto
Auto Off Enable
---- V ----
LANGUAGE
English
German
French
Spanish
Swedish
Finnish
Dutch
Italian
SELECT UNITS
Temperature °F
Velocity ft/min
Flow CFM
Heatflow BTU/h
Pressure in.H2O
Baro Press in.Hg
< >
FLOW TYPE
Round duct
Rect duct
Duct area
Press/Kfact
Horn
Air cone
To zero the pressure reading, select Pressure Zero.
MENU
Zero Press
Display Setup
Settings
Flow Setup
Actual/Std Setup
Data Logging
Zero CO
Applications
Calibration
Discover Printer
FLOW SETUP
Flow Type Round Duct
Enter Settings
< >
ENTER SETTINGS
12.0 in dia
See Next Page
APPLICATIONS
Draft Rate
Heatflow
Turbulence
% Outside Air
If a CO probe is attached, this function will zero the CO sensor
ACTUAL/STD SETUP
Setting Standard
Temp source Entered
Standard temp 70.0 F
Standard Press 29.92 in.Hg
< >
SETTING
Standard
Actual
TEMP SOURCE
Entered Temp 70°F
Probe
Thermocouple 1
Thermocouple 2
< >
This function identifies and partners the instrument with the model 8934 Bluetooth portable printer
CALIBRATION
Calibrate Temp
Calibrate Vel
Calibrate %RH
Calibrate Press
Calibrate B.P.
Calibrate CO2
Calibrate CO
Restore Factory Cal
RESTORE FACTORY CAL
Restore Temp
Restore Vel
Restore %RH
Restore Press
Restore B.P.
Restore CO2
Restore CO
RESTORE TEMP
Are you Sure?
YES NO
TA460 Menu Structure



MEASUREMENTS

- Measurements being logged are independent of measurements on the display
- When set to ON, measurement will be logged to memory
- When set to DISPLAY, measurement will be logged to memory if it is visible on the main running screen
- When set to OFF, measurement will not be logged to memory

TA460 Menu Structure

AIRFLOW Instruments, TSI Instruments Ltd.
Stirling Road, Cressex Park, High Wycombe,
Bucks, HP12 3RT, United Kingdom
UK **Tel**: +44 149 4 459200 **E-mail**: info@airflowinstruments.co.uk
France **Tel**: +33 491 95 21 90 **E-mail**: tsifrance@tsi.com
Germany **Tel**: +49 241 523030 **E-mail:** tsigmbh@tsi.com

Contact your local AIRFLOW Distributor or visit our website **www.airflowinstruments.co.uk** for more detailed information.

Quality Assured to ISO 9001:2000

1/2009