Press enter for 5 seconds to access **MAIN MENU**.
Use +/- keys to navigate.
The default password for each level is 0-0-0-0.

MAIN MENU
- Run
- Set Up (see box at right)

SET UP MENU (default; range)
- Configure (see below)
- Calibration (follow on screen instructions)
- Passwords (default is 0-0-0-0, can be set for Admin, Calibration and Configure)
- Done --> Main Menu

DIAGNOSTICS MENU
Access during normal operation by pressing +/- buttons together. Options are alarm test, communications data, input/output relay status and hours counter; I/O status leads to sensor data.

CONFIGURE MENU
- Cal Config (see page 2)
- Hours Counter
- Inputs 1-3 (Configured for closed contact (default) or open contact, none or analog. Inputs can be configured as: **Alarm disable; Night setback** (Input 1 default); **External Alarm**; **Emergency**; **Sash High** (Input 3 default, requires additional component); **High Low**; **Sash Warning** (requires additional component); **Mains Fail**; **Fan Stop** (then choose Fan Start Time, 0-100 seconds to inhibit alarm functions while fan gets up to speed.); **Mute**; **Fire Alarm**; **Temperature** (requires additional component)
- Relay Outputs 1-3. Use this menu to choose how relay behaves on activation: closed contact (default) or open contact. To set one of the outputs to activate when the alarm changes state — Low Air, Alarm Disable, Sash High, High/Low, Night Set Back, External Alarm and Sensor Error — enable feature and any options through the menu for that function (see below).
- Auto Dim Screen (200 fpm; 0-400 fpm). This parameter establishes the velocity point at which the display will automatically dim to conserve energy and preserve display life. Press any key to temporarily return to full brightness.
- Low Air Timer (Default is repeat timer not enabled; when enabled, default is 5 minutes; range is 1-30 minutes)
- Low Air Relay (default is output 3, allow inhibit enabled)
- High Air Relay (default is none)
- Alarm disable relay (default is none)
- Sash high (repeat timer enabled, 5 minutes; 1-30 minutes)
  - Sash High Relay: (default is none)
- High Low Relay (default is none)
- Night Set Back
  - Maintain Low Air (default); Reduce Low Air (20 fpm; 0-999 fpm)
  - Night Set Back Relay (default is none)
- Night Set Back Mute (Default is not enabled)
- External Alarm
  - LED on/off (enabled)
  - Display on/off (enabled)
  - External Alarm Relay (default is none)
- Fire Alarm (default is none)
- Protocol (Modbus; BACnet, Repeater, none, TEL)
- Modbus Settings
  - Slave ID (1; 1-255)
  - Baud rate (9600; 1200-2400-4800-9600-14400-19200-38400-57600)
  - Parity type (none; even-odd-none)
- BACnet Settings
  - Device Instance (0000001)
  - Station ID (1; 0-127)
  - Baud rate (38400; 1200-2400-4800-9600-14400-19200-38400-57600)
  - Parity (none; even-odd-none)
  - Max masters (50; 1-127)
- Sensor Error Options
  - Buzzer on/off (default is enabled)
  - Sensor Error Relay (none; Output 1-Output 2-Output 3)
- Sash Warning Timer
  - Sash Warning Time (1 minute; 0-60 minutes)
  - Sash Warning Repeat Alarm (not enabled; 1-60 minutes, default 1 minutes)
- Factory Settings (enter password to reset)
- Done --> Main Menu

For more information on the TEL AFA 1000 in North America, contact Holland Safety Equipment at 847-680-9930 or info@hollandsafety.com.

The "Cal Config Menu" allows users to change performance options or tweak parameters used to complete calibration. The following list shows the parameters and their functions. The default setting for North American customers is listed in parentheses.

1. **Display Units (fpm)**: Face velocity display units – **fpm** or **m/sec**
2. **Low Air Alarm (80 fpm)**: Sets the low air alarm velocity value; typically 80% of design velocity. The range for this option is 0-400 fpm, but the value cannot be set greater than the Warning Air Alarm value.
3. **Low Air Cut Off (enabled):** When enabled, inhibits the face velocity reading from being displayed below the selected value. For example, Low Air Cut Off enabled and set to 40 fpm (default value), the display will stop reading velocity below 40 fpm. This function is useful in situations where the hood blower is switched off and there is still a flow through the hood either from positive room pressurization or from other influences and the monitor is not required to display velocity. The range for this option is 0-200 fpm.
4. **Warning Air (90 fpm):** Sets the warning air alarm velocity value, the point at which the amber light illuminates, typically 90% of the design velocity. The range is 1 to 400 fpm, but the value cannot be set lower than the Low Air Alarm. The warning light does not illuminate before velocity reaches the high air alarm value.
5. **Warning Air Reset (5 fpm):** Sets the reset differential value — the number above the Low Air Alarm at which the monitor will reset from Air Fail into Air Safe on rising airflow. The range is 0-200 fpm.
6. **High Air Alarm (Not Enabled):** Enables and sets the high air alarm velocity value. Typically not used. If enabled, the default value is 300 fpm, range is 0-400 fpm. Cannot be set lower than Low Air Alarm value.
7. **Lower Air Fluctuations (10%):** During calibration, this parameter monitors the fluctuations in airflow during the low air (first) sample. The monitor samples the airflow for 5 seconds and averages the readings, if any of the fluctuations differ from the average by more than the parameter value, the calibration will be stopped and a "Fluctuations too high" message will be shown and the calibration canceled. The range for this option is 1-100%.
8. **High Air Fluctuations (10%):** This parameter monitors the fluctuations in airflow during the high air (second) sample. The range for this option is 1-100%.
9. **Low/High air difference (60 fpm):** During calibration, this parameter sets the difference required between airflow samples. If the high air value entered during the second calibration point is too low, a "Low High Diff too low" message will appear and the calibration will be stopped. The range for this option is 0-999 fpm.
10. **Warning to Alarm Time (5 seconds)**: This parameter sets a time delay for the Low Air alarm to activate once the Low Air alarm point has been reached. This is to stop the monitor from dropping in and out of Low Air Alarm if the airflow is turbulent and close to the low air alarm point value. The range for this option is 0-60 seconds.
11. **Alarm to Warning Time (1 second):** This parameter sets a time delay for the monitor to reset from Air Fail to Air Safe once the airflow exceeds the Low Air Alarm value. The range for this option is 0-60 seconds.
12. **Show airflow (enabled):** This parameter enables/disables the face velocity reading on the display. When disabled the monitor will show ether "Air Safe" or Air Fail".
13. **Show timeline/bargraph (bargraph):** This parameter toggles between a display of a bargraph or timeline above the velocity. The colorized bargraph (0-200 fpm) is the default; the other option is a timeline showing the airflow alarm condition for the previous 60 minutes.
14. **Show alarm limits (not enabled):** Shows alarm points, in color, on the airflow bar graph.
15. **Audible alarm (enabled):** When disabled, the horn will not sound in any alarm condition, but the red ALARM light will blink.
16. **Sensor Difference (10%)**: This parameter looks at the actual change on the sensor output between the two air flow samples during calibration to make sure the sensor sees enough change to allow the calibration. If the monitor does not see enough change, a "Sensor diff too low — Check sensor" message will appear. This parameter is useful to ensure the air hose has been connected. The range for this option is 1-100%.
17. **Display Smoothing (1 sec):** This parameter replaces the sensitivity parameter. The monitor averages the displayed airflow velocity over a user-selectable time range of 1 to 100 seconds.
18. **Keyboard Click (not enabled):** This parameter allows the monitor to beep when keys are pressed.