

TEL AFA 500 BSC MK2 BIO-SAFETY CABINET MONITOR — INSTALLATION AND OPERATION GUIDE

STARTUP

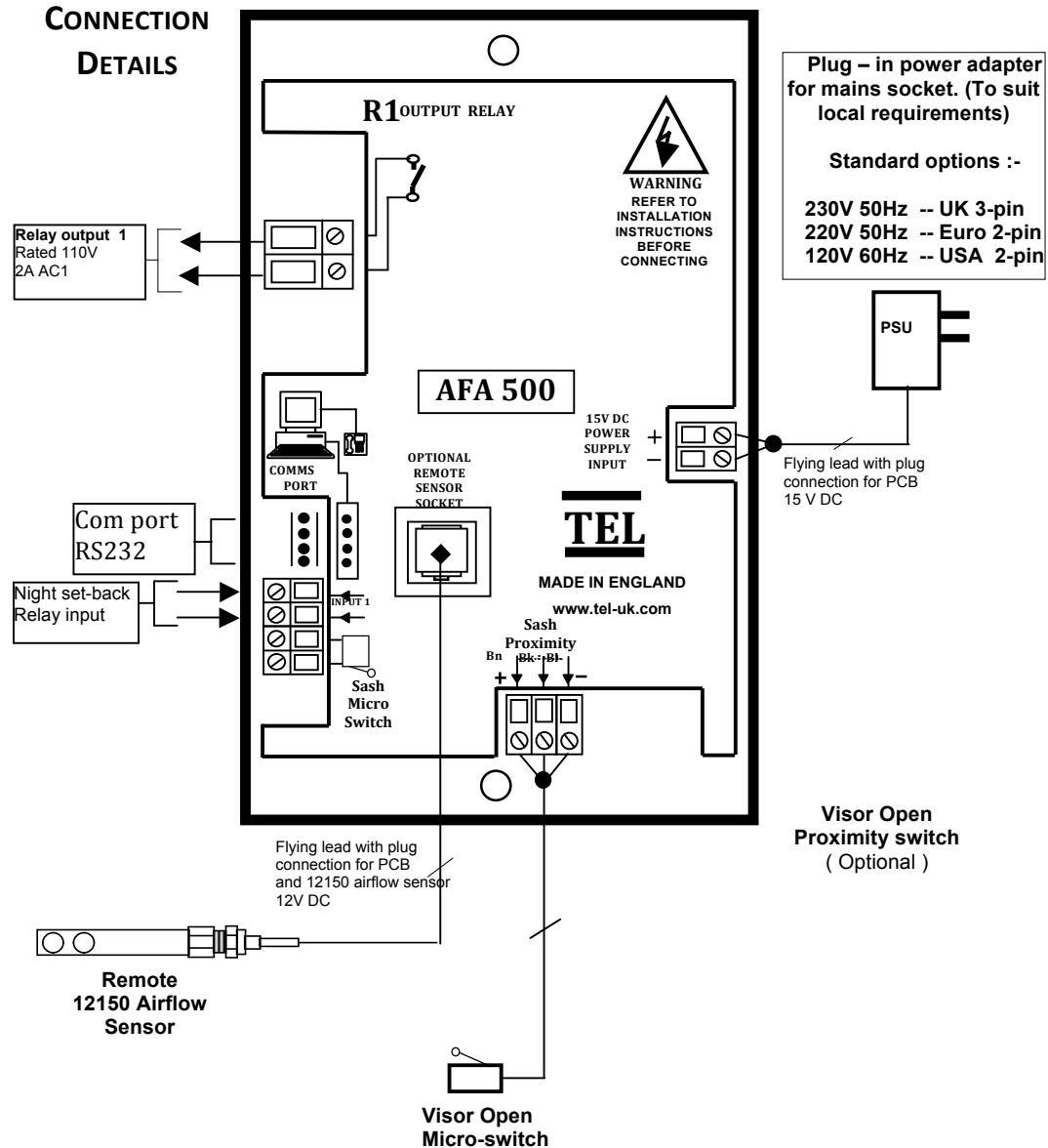
The AFA 500-BSC must be field-calibrated after an HVAC professional balances the room air supply and exhaust. When the unit is powered up, the following sequence of events occurs:

1. The alarm performs a self-test of its functions, LEDs and audible alarm (approximately 2 seconds) and then initiates a delay timer of 30 seconds to allow the airflow sensor to stabilize.
2. During the 30-second stabilizing period, all alarms and relay outputs are deactivated and the red and green LEDs remain on.
3. At the end of the delay, the unit will do one of two things:
 - a. **If the monitor has been calibrated**, the unit enters normal operating mode (solid green light for safe velocity, red light and audible alarm if low velocity).
 - b. **If the unit has not been calibrated**, the red and green LEDs will flash, the audible alarm will be muted.

CALIBRATION — SINGLE POINT (DEFAULT)

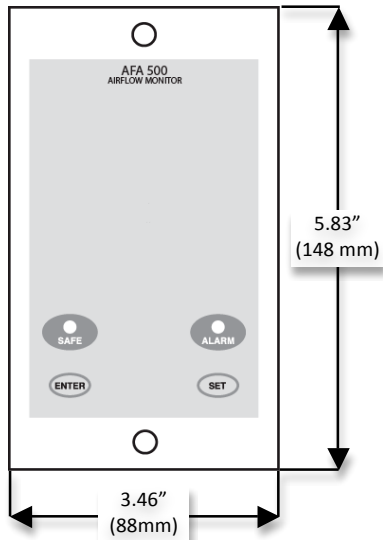
1. The calibration process establishes an alarm point at 80% of the flow rate captured during calibration. That is, the alarm value will be 20% less than standard airflow.
2. Press and hold the ENTER button for 5 seconds to enter Calibration Mode. This is indicated by both red and green LEDs flashing with the audible alarm beeping.
3. To initiate calibration, press and hold the ENTER and SET buttons at the same time. The unit will sample the airflow for 5 seconds, during which time the green LED goes off and the red LED flashes. The audible alarm continues to sound during the air sampling.
4. If calibration is successful, the monitor will give a two-tone beep at the end of the air sample, and then automatically enter run mode.
5. If the ENTER or SET button is released during the air sampling period, or if the airflow is fluctuating too much, the alarm will emit a lower-frequency buzzing for a short period and then re-enter calibration mode. If this occurs, press the ENTER and SET buttons again to repeat the airflow sampling.
6. If, during normal operation after a successful calibration, the airflow drops below the alarm point, the unit will go into alarm condition (red LED flashing, audible horn beeping). Push the enter button to temporarily mute the horn.

CONNECTION DETAILS



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ALARM PANEL DIMENSIONS



PROBE INSTALLATION DIAGRAM

