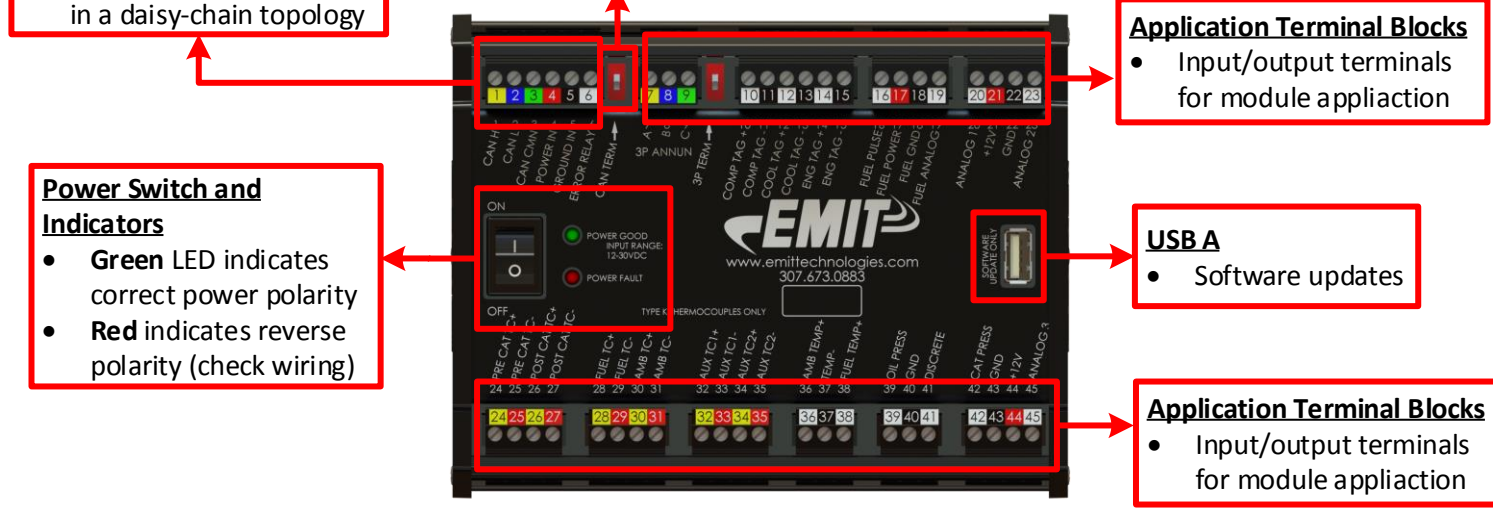
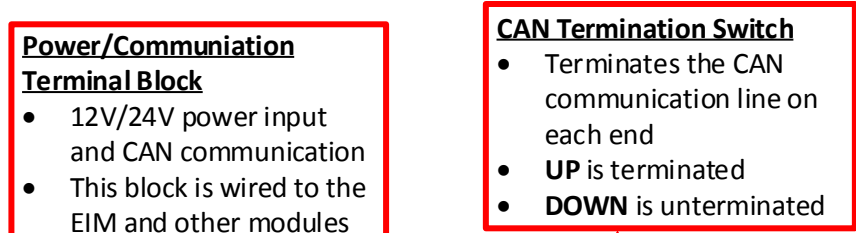
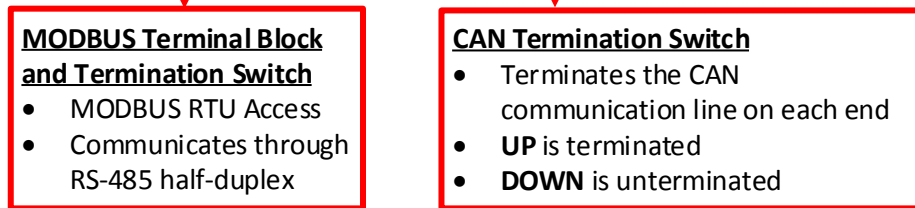
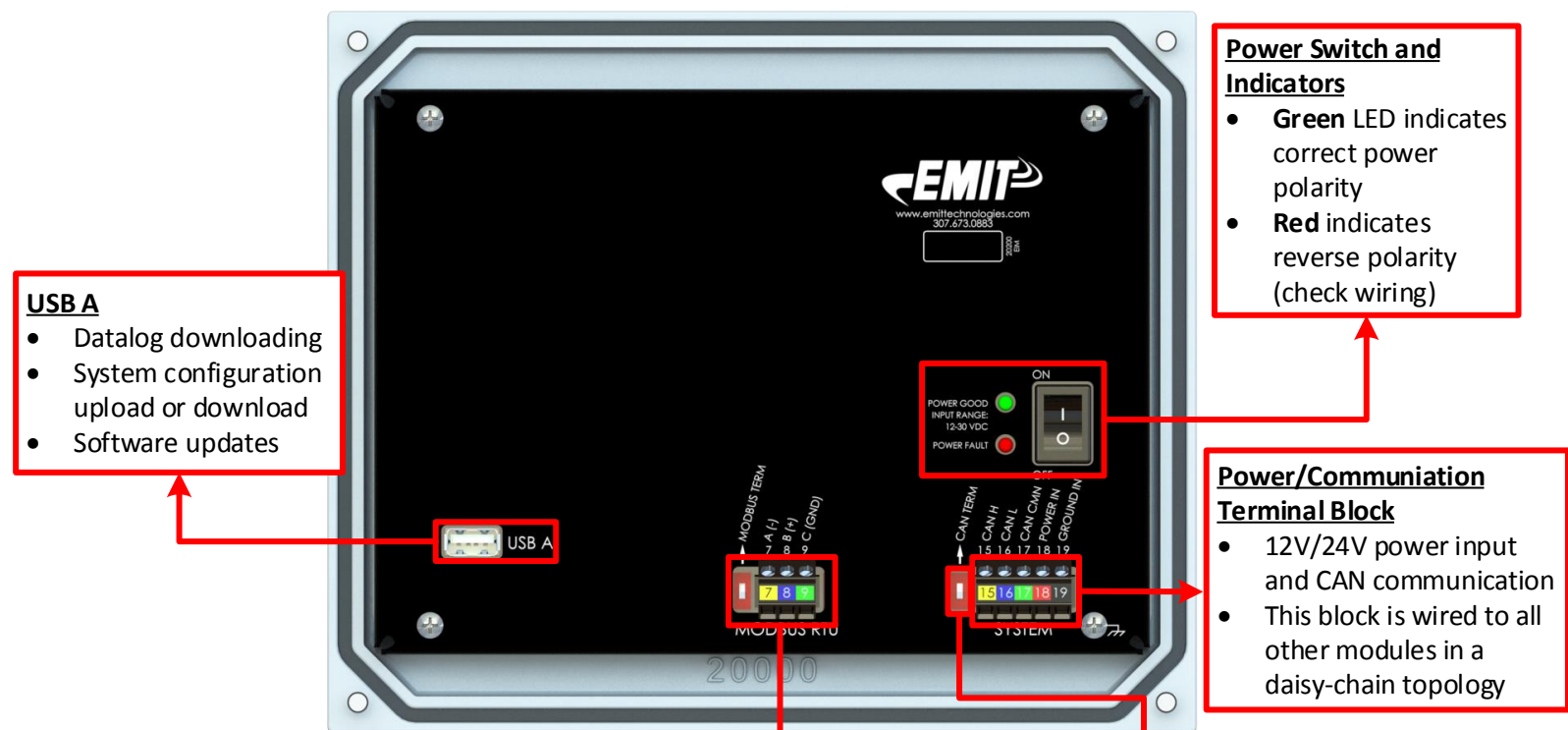
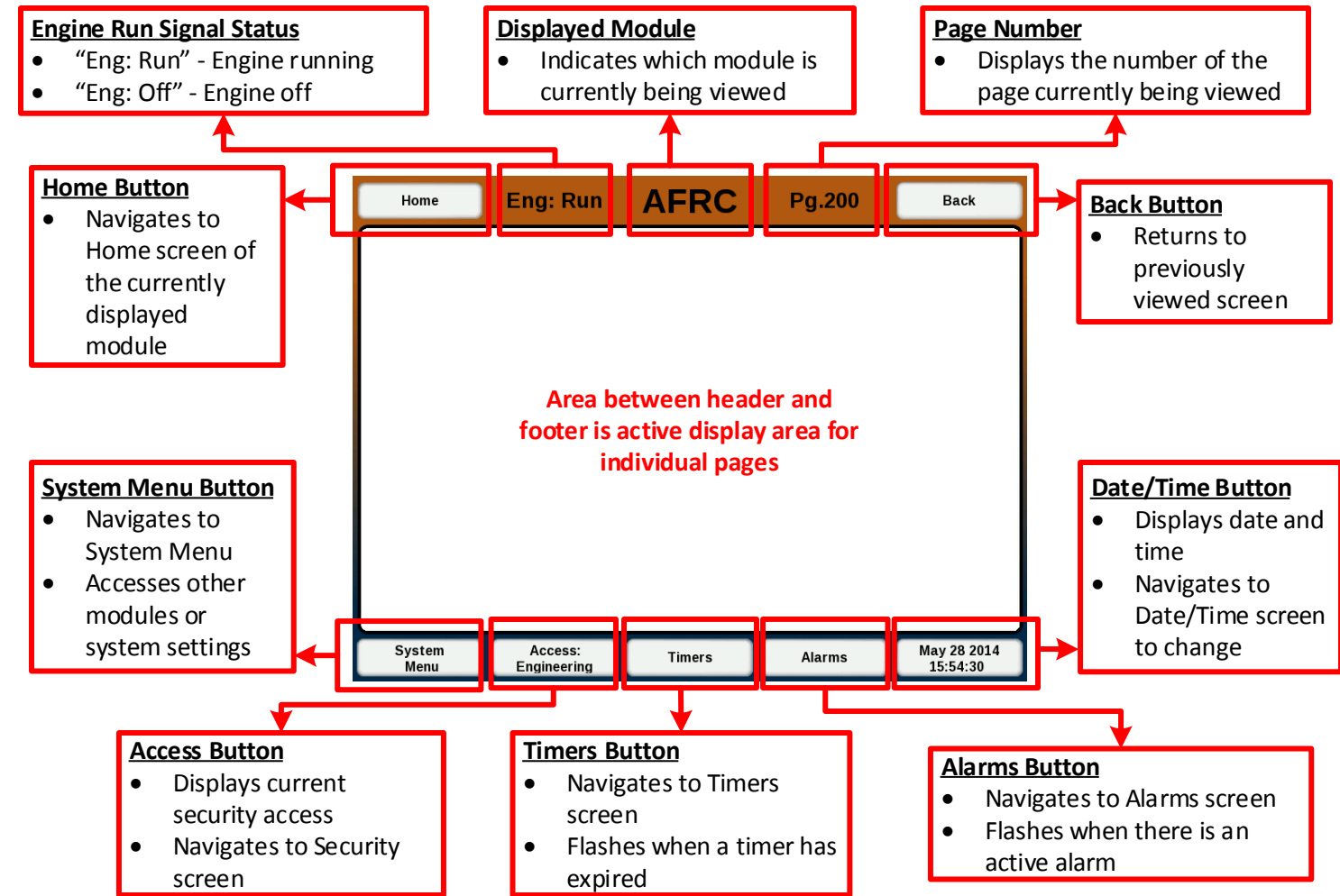


COMPONENT ANATOMY



USER INTERFACE



USER INTERFACE ELEMENTS

Button	Example	Description
Button (Sensitive)		<ul style="list-style-type: none"> Light grey. Active and selectable.
Button (Insensitive)		<ul style="list-style-type: none"> Dark grey. Disabled and cannot be selected.
Combobox		<ul style="list-style-type: none"> Light grey. Displays selected value. Hold finger on button and slide to selection.
Toggle Button	 Vs.	<ul style="list-style-type: none"> Pressing the button changes the text of the button. The text of the button indicates the current status.
Enable Button	 Vs.	<ul style="list-style-type: none"> Dark grey indicates button is enabled or "on". Light grey indicates button is disabled or "off".

EIM QUICK START

Security Access

- Press the 'Access: Operator' button in the footer of the display
- Using the keypad on the screen, enter the *Setup* security password, then press the 'Submit' button
 - Passwords for the system are located on the cover of the EMIT USB drive included with the EIM
- The 'Access:' button will now display 'Access: Setup' after successfully entering the password

Date and Time

- Press the button displaying the date and time in the lower right corner of the display
- Use the buttons and keypad to set the current date and time
 - Time is in 24-hour format
- Press the 'Submit' button when completed

Run Signal

- Press the 'Run Signal Trigger' button on the right-hand side of the **System Menu** screen (Pg. 0)
- Use the 'Sensor:' combobox and trigger temperature (if using a TC) to define how the system detects when the engine is running
 - The default option of "Auto-Detect" will scan all enabled sensors for a valid run signal

AFRC ADVANCED AND AFRC LITE QUICK START

Verify Engine Condition

- Valves are adjusted to factory specification
- Spark plugs are properly gapped and in good condition
- Cylinders have good compression
- Mixers are in good condition and regulator fuel pressure is set to factory specification
- Fuel connections are secure and leak-free
- Ignition system functioning correctly and timing set appropriately for fuel composition

AFRC Settings

- After AFRC installation, and before starting the engine, configure the AFRC to the following:
 - Run signal source is properly selected from the **Run Signal Trigger** screen (Pg. 10)
 - If using an external dynamic valve, manually turn valve fully open for engine startup only
 - In *Setup* or *Engineering* access mode, toggle the control mode on the **AFRC Home** screen (Lite Pg. 300, Adv. Pg. 200) from "Auto" to "Manual"
- The AFRC is now ready for the engine to start.

Controlling

- Start the engine and wait for it to reach its normal operating temperature and load
- While in "Manual" control mode, adjust the valve position manually and use an exhaust gas analyzer to find the optimum target setpoint for emissions
- Once the optimum valve position is found, set the "Target:" setpoint to match the current "Actual:" reading, then toggle the control mode from "Manual" to "Auto"
 - If equipped with 'Auto Control' where there is no "Target:" setpoint adjustment, toggle the control mode from "Manual" to "Auto"

EMD QUICK START

Required Compliance Data

To generate the datalogging file and begin recording, compliance information is required. To enter this information, navigate to the **Compliance Setup** screen (Pg. 102) of the EMD:

- In *Setup* or *Engineering* access mode, press the 'EMD' button on the **System Menu** screen (Pg. 0) to navigate to the **EMD Home** screen (Pg. 100)
- Press the 'Setup' button on the **EMD Home** screen (Pg. 100), then press the 'Compliance Setup' button on the following screen

The following information is required on the **Compliance Setup** screen (Pg. 102):

- HAP source type
 - 'Area' or 'Major'
- Construction or re-construction date
 - Commenced date of engine construction or re-construction
- Combustion type
 - '4SRB', '4SLB', '2SLB'
- Horsepower
 - Rated horsepower of the engine as defined on the engine nameplate
- Facility/location name
 - The name of the location where the engine currently resides
- Unit number
 - Unique unit number of the engine at the specified location

After the information has been provided, press the 'Submit' button. A compliance datalog file will be created based on the information entered and begin to be logged to.

Baseline Catalyst Pressure

Upon completing the initial performance test of the engine, the baseline catalyst pressure needs to be set for monitoring. With the baseline pressure set, the EMD will monitor the catalyst differential pressure for values that exceed +/- 2" WC. To set the baseline:

- In *Setup* or *Engineering* access mode, press the 'EMD' button on the **System Menu** screen (Pg. 0) to navigate to the **EMD Home** screen (Pg. 100)
- Press the 'Compliance' button on the **EMD Home** screen (Pg. 100)
- On the **Compliance** screen, press the 'Set Baseline Pressure Value' button to set

Setting the baseline pressure value will complete the EMD setup process.

SUPPORT

If technical support is required, contact information is available at the very end of the user manual along with information that may be required to help assist in troubleshooting and support. The user manual is located on the USB drive included with the EIM.