

Modulus Lifeboat

Enter Lifeboat

To enable the life boat the modulus must be power cycled with the front button held in. After 5 seconds the display will say "Lifeboat" with the version number. It will then show the current IP address for the unit. If using the lifeboat to load firmware from the SD card, the card must be inserted before running the lifeboat, or you can use the reset command to restart the lifeboat.

Display Function

Pressing the button for under 500mS is considered a short press and these are used to advance between menus. Pressing the button for over 500mS is considered a long press and this is used to select an operation.

Modify Address

This screen shows the current IP address. The address can be changed by pressing the button.

Use DHCP; Get IP

When selected, this screen will try to grab a new IP address from a DHCP server. The unit must be plugged into a live Ethernet system for this to do anything. The address is NOT saved to FRAM and is only used until a reset.

Save IP

When selected, the current IP address will be saved to FRAM.

Disable Security

When selected, will disable the security by clearing the Enable stored in FRAM.

Reset; HTTP

When selected, will set the Web Port in FRAM to the default of 80

Wipe; Flash Disk

When selected, this will erase the whole Flash Disk. The operation needs to be confirmed before it is run. This operation will take 3.5 minutes to complete.

Wipe; FRAM

When selected, this will erase the whole FRAM Chip. This will reset all defaults. The operation needs to be confirmed before it is run. The unit might need to be power cycled a couple times after this for proper operation.

Lifeboat; Reset

This will restart the lifeboat. This could be useful for inserting a SD card after the lifeboat starts up. This includes swapping SD cards.

Reboot

This will reboot the unit back into normal code (after the boot loader writes the code into system flash).

Load Firmware

This will display all of the SFS files on the SD card and if one is selected then it will be loaded.

Load Library

This will display all of the WFS files on the SD card and if one is selected then it will be loaded.

Ethernet systems

DHCP Server

DHCP Client - Activated by "Get IP address" from display

ECHO (PING)

HTTP port 80

TFTP for SFS download (and SFS Lifeboat also)

Gratuitous ARP

ARP

Command Line Extensions

URL	Description
/ or /loader	Web File Loader for sfs, lb & wfs
/test	Test Page
/reboot	Reboot and install SFS
/breset	Resets both B Flash drive areas
/readF<address>	Read 256 bytes from Flash Drive
/readM<address>	Read 256 bytes from Fram Chip
/readS<address>	Read 256 bytes from System Flash
/readE<address>	Read 256 bytes from System EEPROM
/writeM<address>,<byte of data>,{more bytes,,,}	Write bytes to Fram Chip
/writeE<address>,<byte of data>,{more bytes,,,}	Write bytes to System EEPROM
/fram	download the complete Fram image
/flash	download full primary Flash image
/flashX	download individual Flash images (x = see below)

flashA	Download SFS
flashB	Installed SFS
flashC	Event Log
flashD	System Log
flashE	Basic Source
flashF	WUI Source
flashG	Basic Tick
flashH	Library WFS Area
flashI	Monitor Log
flashJ	Flash Disk A
flashK	Flash Disk B
flashL	Alarm Journal
flashM	Restore Download Area

SD Scripting

Automatic scripting can be done by adding an ***lclScript.txt*** file to the SD card.

Each line in the file is parsed. The first character is the command character and any further data (usually a file name) follows the command character. Any unknown item is considered a comment and the line is not processed.

Command	Parameter	Description
S	<filename>	Load SFS Firmware file
W	<filename>	Load WFS Library file
L	<filename>	Load LB LifeBoat file
R		Reset FRAM
C	<filename>	Copy file from SD to flash disk