

EIL3200 ALARM MONITOR

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1. OVERVIEW

COMMUNICATIONS

One EIL3200 can be connected using simple shielded twisted pair wire to up to 254 EIL3000 controllers. The EIL3200 will pole each controller on the network and act as a multi-point alarm and datalogger. This enables a network of controllers:

- to be monitored with an on-site alarm monitor which will activate an automatic dialer should any unit go into alarm. This monitor will sequentially display the status of each unit and will display those units in alarm when the ALARM button is pushed.
- to be monitored and controlled remotely over a telephone line with the operator's own computer when the available software and hardware are added. Up to 254 units per location can be monitored. Units requiring action are highlighted to draw the operator's attention. The operator can select a particular unit and see on his computer screen the status of that unit. He can then change the status and setpoints of that unit.
- to be monitored and controlled without a telephone line with the operator's own computer if the computer is located within one mile of the location to be monitored.

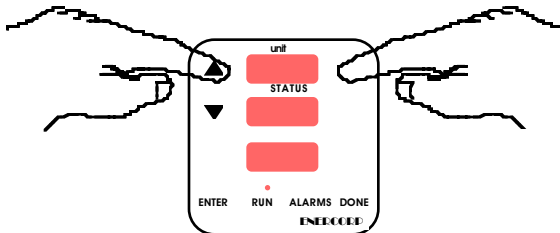
ALARM MONITOR

The EIL3200 alarm monitor is a modified EIL3000 with software which will monitor all units in one location for alarm conditions. If any unit goes into alarm it will trip two relays. One can be connected to a local horn and the other to a remote dialer to notify the operator by telephone or pager of alarm conditions.

2. SET-UP (Changing the way the instrument works)

The EIL3200 must be told the ID numbers of the units to be monitored. This section describes how to add or delete units from the list to be monitored.

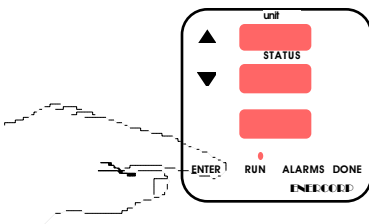
Press and hold the UP arrow and START keys for 10 seconds



Software identification: After 10 seconds has elapsed and as long as you continue to hold the two keys the top display will read ##, the middle display will read r0x and the bottom display will read ALr. This indicates the version of the software which is installed. This information is helpful to our technicians.

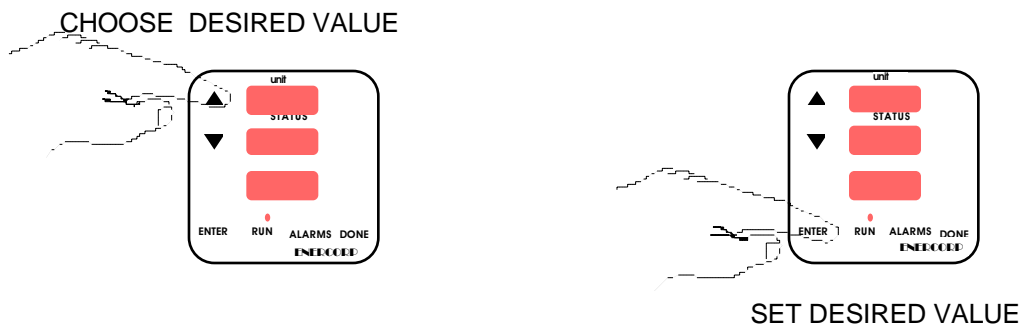
Display check: Once you release the keys all 7 segment displays will cycle continuously through the numbers 9 to 0. Spot LED's will light sequentially. This is used to verify all display segments are operating properly. Once you are happy all display segments are operational

Press the key in the lower left corner

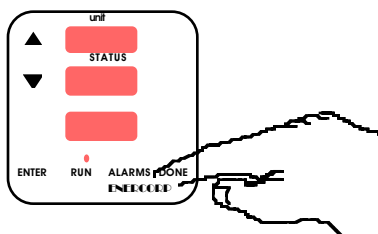


This will terminate the display check and advance you to the next step.

Adding units to be monitored:

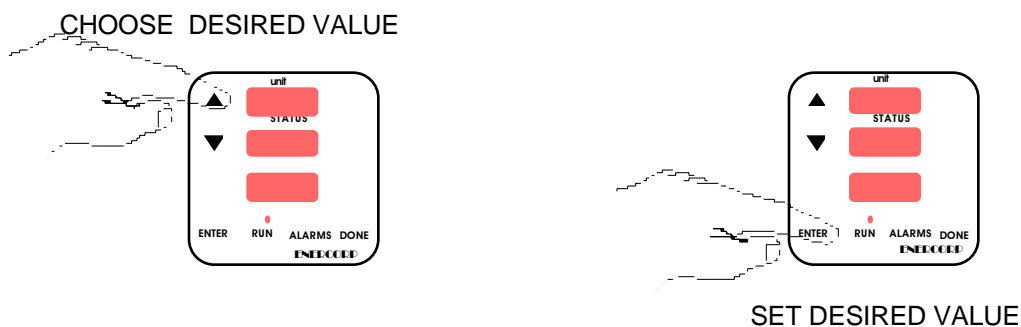


The EIL-3000 will only monitor the units which you tell it to. The top display will show Add and the middle display will flash a number between 1 and 255. Press the enter key to add the unit ID displayed or use the arrow keys to change the ID to the desired value and then press ENTER.

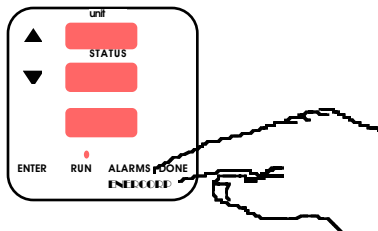


When you have finished adding all units press the DONE key.

Deleting units to be monitored:



The top display will show DEL and the middle display will flash a number between 1 and 255. Press the enter key to delete the unit ID displayed or use the arrow keys to change the ID to the desired value and then press ENTER.



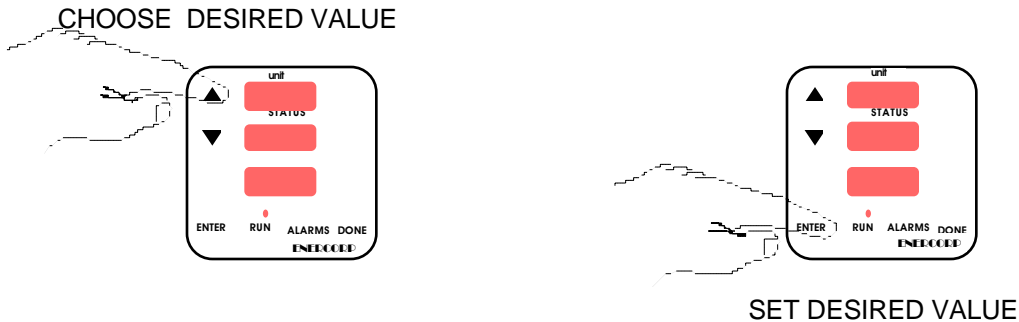
When you have finished deleting units press the DONE key.

3. DATA LOGGING OPTION

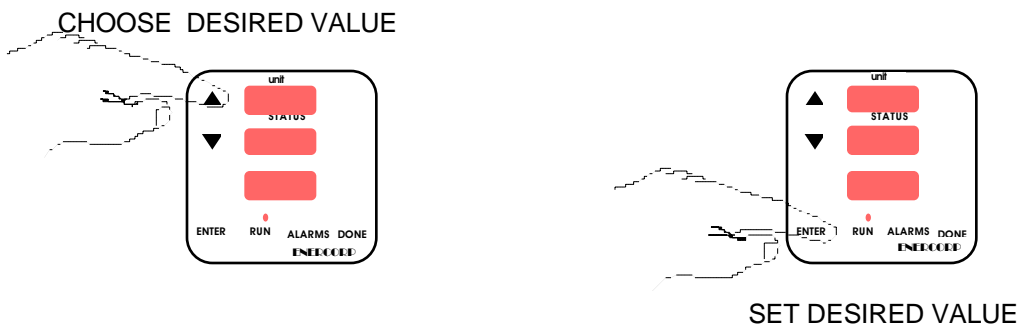
If not installed skip to 4.

If the alarm unit has built-in data logging it will go through the following sequence to set the real time clock. The real time clock setting is maintained by a storage capacitor for about 3 days in the event of a power failure or intentional power down. If power has been disconnected for longer than about 3 days, such as start up at the beginning of a season it will be necessary to re-set the clock.

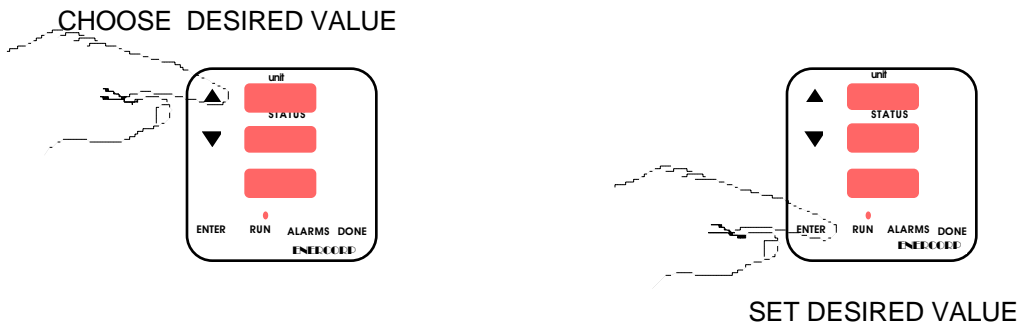
Setting the year: The top display will show Yr and the middle display will flash a number between 0 and 99. Use the arrow keys to change the year to the desired value and then press ENTER.



Setting the month: The top display will show Mo and the middle display will flash a number between 1 and 12. Use the arrow keys to change the month to the desired value and then press ENTER.

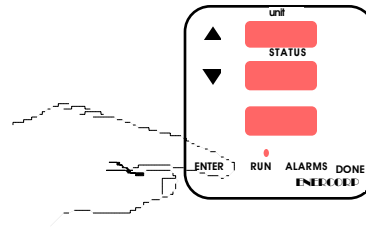
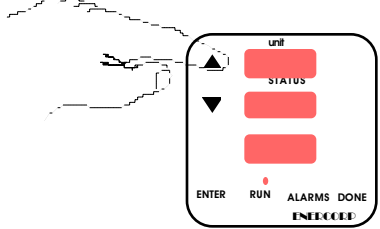


Setting day of the month: The top display will show dat and the middle display will flash a number between 1 and 31. Use the arrow keys to change the month to the desired value and then press ENTER.



Setting day of the week: The top display will show daY and the middle display will flash a number between 1 and 7. Sunday is usually used for day 1. Use the arrow keys to change the day to the desired value and then press ENTER.

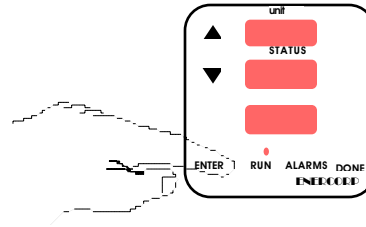
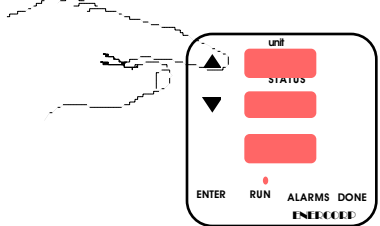
CHOOSE DESIRED VALUE



SET DESIRED VALUE

Setting the hour: The top display will show Hr and the middle display will flash a number between 1 and 23. Use the arrow keys to change the hour (1-23) to the desired value and then press ENTER.

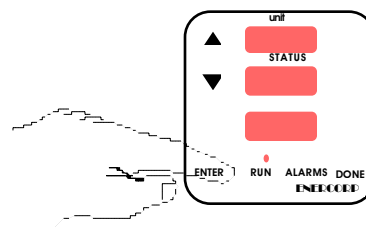
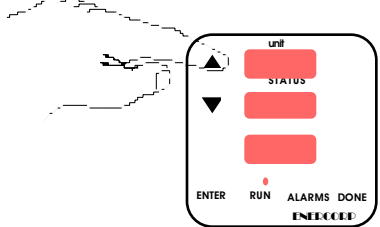
CHOOSE DESIRED VALUE



SET DESIRED VALUE

Setting the minute: The top display will show Min and the middle display will flash a number between 0 and 59. Use the arrow keys to change the minute to the desired value and then press ENTER.

CHOOSE DESIRED VALUE



SET DESIRED VALUE

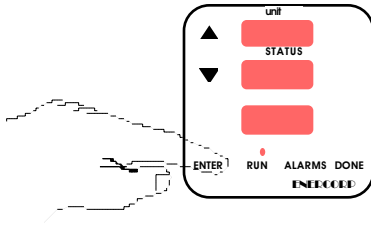
4. OPERATION

STAND-BY

As long as power is applied to the EIL3200 the top display will read Std and the middle display will BY to indicate the unit is powered on but not monitoring or is in stand-by mode. If no units have been specified in the previous step the top display will read not and the middle display will CnF to mean not configured.

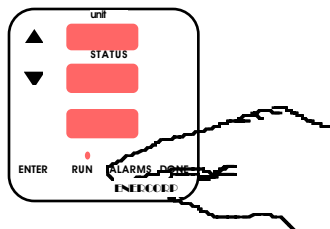
TO BEGIN MONITORING

Press and hold the RUN button for 5 seconds until the light above this button remains on. This time delay is intentional to prevent a cure cycle beginning accidentally. Once monitoring is started it can be stopped by pressing the same RUN button for 5 seconds. Again this time delay prevents monitoring from being accidentally stopped.

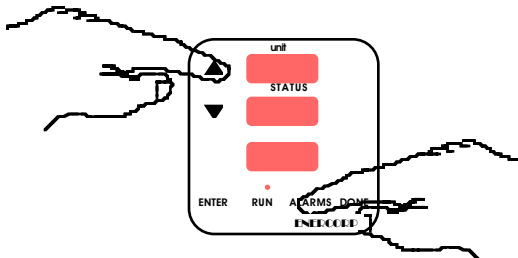


While the unit operates, the light in the RUN button remains lit, the top display will indicate the unit ID of the unit presently being monitored. The middle display will display ON to indicate the unit is operating normally, OFF to indicate it is powered off or not responding, Std to indicate the unit is in stand-by, HI to indicate a high alarm or LO to indicate a low alarm. If the middle display is either HI or LO the bottom display will indicate ALr. If the middle display is Std then the bottom display will read bY, otherwise it will be blank. If the RUN led starts to flash it means a computer has taken over control of the monitoring.

TO DISPLAY ONLY UNITS IN ALARM

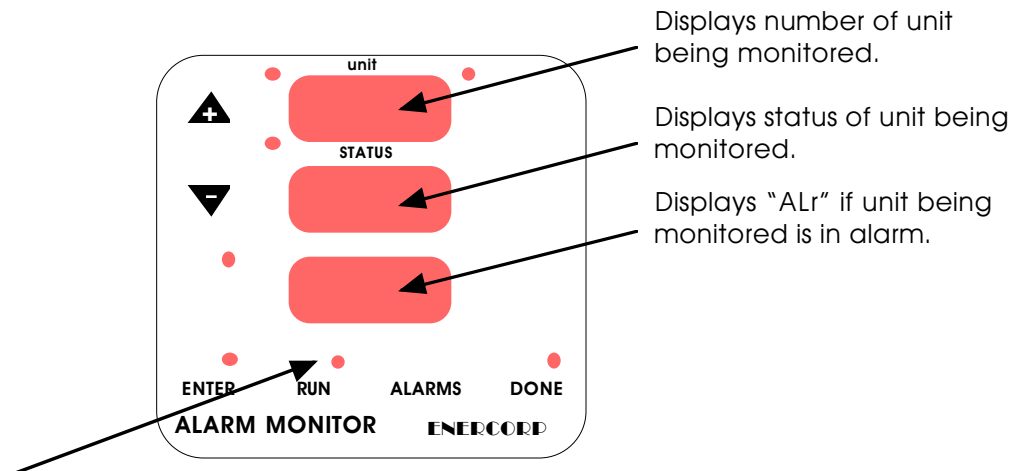


Press and hold the ALARM key to display the first unit in alarm. If any units are in alarm the top display will indicate the ID number of the first one, the middle display will indicate HI or LO and the bottom display will indicate ALr. If no units are in alarm the top display will indicate NO.



Keep the ALARM key depressed and use the arrow keys to toggle through all units in alarm.

5. WHAT THE ALARM MONITOR KEYBOARD LIGHTS MEAN



If lit the instrument is monitoring the unit yard.

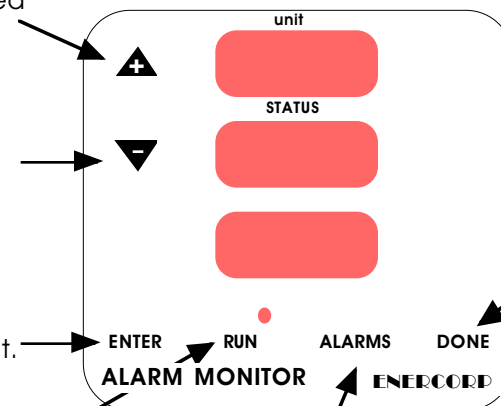
6. WHAT THE BUTTONS DO

Increase unit number displayed in *SETUP* or when ALARMS buttons is pressed.

Decrease unit number displayed in *SETUP* or when ALARMS buttons is pressed.

While in SET UP
Press to accept displayed unit.

Press for 5 seconds to start monitoring unit yard.
Press for 5 seconds to stop monitoring unit yard.



Press and hold to see first unit in alarm. While holding this button down press UP or DOWN ARROW keys to toggle through all units in alarm.

7. CONNECTING THE LON NETWORK

Each EIL3100 expansion module has 2 pairs of 3 terminals for connecting the communications wiring. This makes it easy to daisy chain modules together. The terminals marked S must be used for the shield drain wire. The terminals marked 1 and 2 are used for the twisted pair. Since the signal is AC polarity is not important.

The last plug-in module with only 3 wires connected should have a terminating jumper installed on the 2 pins beside the terminal strip. No other module should have a jumper installed.