

Engineering Error Codes

The following codes are shown if the "SysError" function is enabled from the Supervisor Menu. This can help trace problems with a network and would normally only be useful to a trained engineer.

00	No error
F0	ASCII (a valid data but no code available yet)
F1	New node found (address not in registered list)
F2	Duplicated node (address registered but type is different)
F3	Input buffer overrun DV=1 when new data ready in buffer
F4	Unaddressed node detected (address=FF)
F5	DV was not cleared within the preamble time allocated (warning only)
F6	Watchdog timeout occurred
F7	0.5 sec overrun compensated (due to RF noise)
F8	Display fault. Timeout waiting for busy signal
F9	Cyclic buffer over-run
FE	Test value only

Node Test

In Node Test mode the lower half of the display shows, in numeric format, the radio data baud rate error and the signal strength.

Data Out

See separate Programmer Handbook for details of the data formats and control codes available for the USB link. This applies to the P137 pager only

Alert-it Care Systems

P137 & P138 Care Call Pager

Supervisor Handbook



Support

For technical support please fax or EMail:
HELP: 0845 2179951
FAX : 0845 2179953
Support@itsdesigns.co.uk

Designed by:
ITs Designs Ltd
Leicester
LE9 9FE UK

...using technology to care for carers

One of a range of Alert-it Care Alarms available from:

Overview

The Alert-it P137/8 Pager is a powerful system monitoring device for radio linked alarm systems. It can receive status transmissions from up to 32 alarm nodes (3 for P138) and alerts the user should any enter an alarm condition. The alarms are classified into 4 levels and the alarm display is prioritized in terms of level and age. In addition, any node can be deemed of high integrity, in which case the user is alerted if the radio link to that node fails. This is achieved by monitoring a heartbeat signal that is sent approximately every 8 seconds from such nodes. Lastly, any node can be additionally set to detect the transmitter moving outside a pre-defined geographical area. This is achieved by calibrating the minimum acceptable radio signal strength from the node, and if it falls below this value then the user is alerted.

For convenience to the user each node can be named to suit the application and each level of alarm plays a different “tune”. The pager can also be used in silent mode with a vibrator, as may be preferred for night use.

The P137 pager can send all alarm details to a computer using an optional USB interface. This link also allows all the user data to be saved and reloaded from a computer (eg for cloning replacement pagers). The same interface can also trigger additional equipment such as telephone autodiallers or sirens. The USB link can also read the P137 pager log of both the frequency of alarms from each node and the maximum time to service those alarms. This provides essential metrics for any manager to demonstrate the level of response achieved.

First Time Operation

As shipped the pager will be in “Extended User Mode”. The Supervisor can restrict the user functionality as well as use more advance features of the pager, especially concerned with the Configuration and Administration of systems and computer communications.

The Supervisor mode is enabled by entering a password when required within the menu structure.

At the first time of using the EDIT/SET-UP menu the user will be prompted to start entering new node information manually. There are many alternatives to this for configuring a system, so for full details of System Configuration see handbook “UH1068C P137 Configuration Manual”

Familiarise yourself with the basic editing/navigation process



Hold down 3 sec to enter Set-Up & Edit menus. Press to abort menus, one level at a time. Also used to scroll through numbers & letters if required .



Scroll back & forth though menus or select settings shown on the display above the key



Press to display list of active alarms. In menu mode also used to scroll through numbers & letters or select an option,

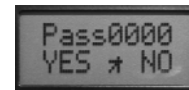
Example edit screens



Scroll through menu.& Select option. Menu drops back a level in the menu



Select/Menu scrolls the number/letter over cursor. Left key accepts the value, right key selects next



Next step will be to accept the value with left key, repeat entry with right key or abort the process with the Menu key



Left & right keys change the option. Select key to activate the selected option, menu key to abort leaving function unchanged

Overview of Functionality

Basic User Mode

1. Listing all registered (or new) nodes. If a node is selected, then the basic user can only view the node properties.
2. Setting the USERmode for such items such as playing tunes, key beep, vibrator on/off, backlight on/off
3. SNOOZE, which silences alarms for 5 minutes and shows all the active alarms in a list

Extended User Mode

The supervisor is able to allow the user a greater level of control (see?). In this case the basic user menu mode extends to cover

1. Turning the pager off
2. Resetting alarms manually (rather than only via resetting the transmitter).
Warning: If the alarm is reset manually then the statistics of time to respond is considered not valid for this alarm and the time value is not therefore stored.
Note: If the transmitter is not reset then the alarm maybe be re-transmitted every 8 seconds, which will re-activate any alarms.

Supervisor Functions

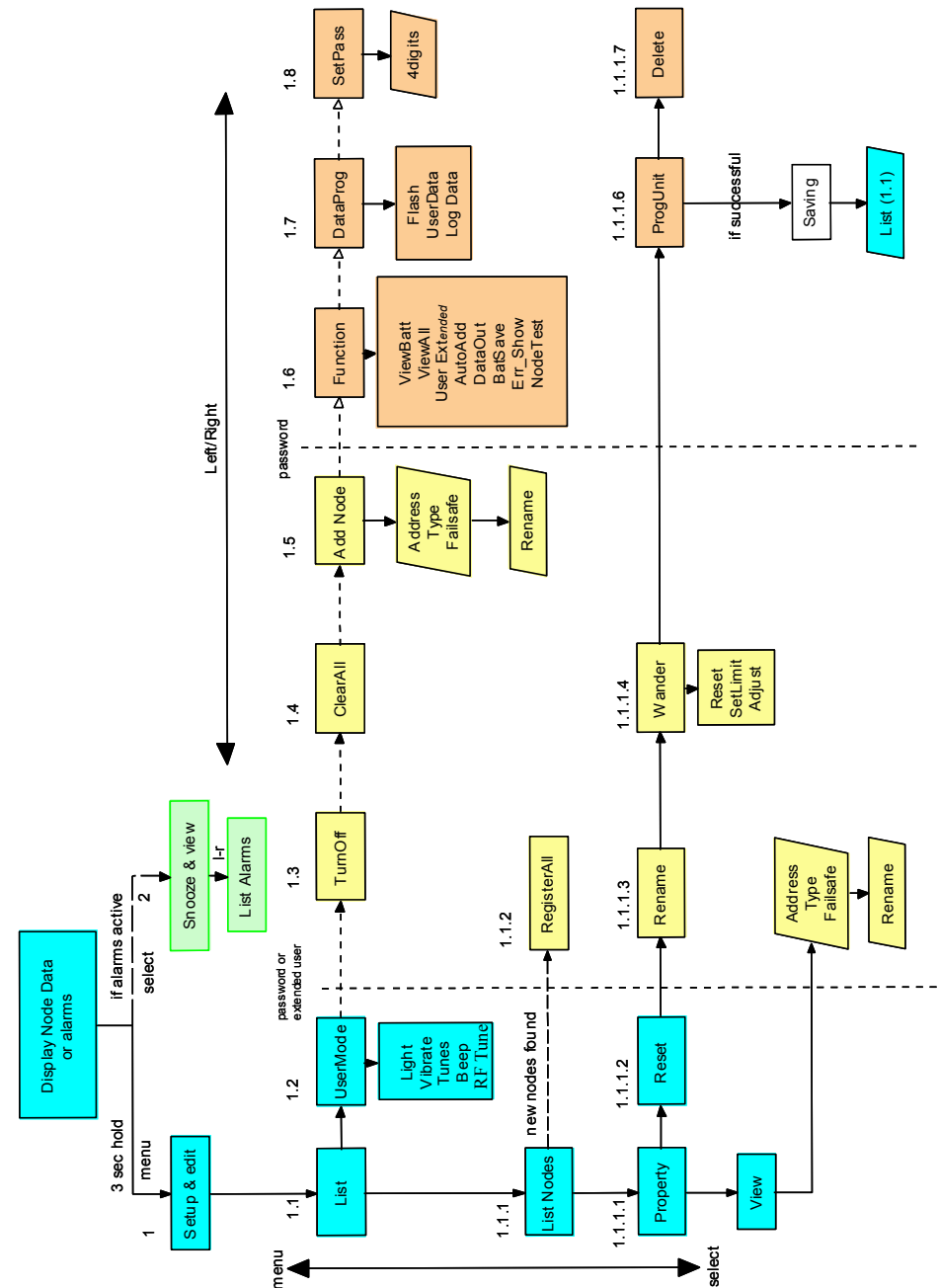
The supervisor mode is enabled by entering the correct 4 digit password when requested. The default password is 1900. This extends the menu to cover:

1. Adding Nodes
2. Deleting nodes
3. Auto-registration of nodes
4. Enabling the extended user capability.
5. Setting the operating environment for the user
6. Enabling more advanced system monitor functions
7. Resetting the password
8. Programming nodes with node address/type

Node Property Edit

The Supervisor can adjust the Address/Type/Name and Failsafe Operation of each node from the LIST/PROPERTY menu, BUT the password must be entered in the first menu level first (ie after entering Setup&Edit scroll right until the PASSWORD is requested, now go back to LIST and edit if required).

Full Menu Structure



Details of Menu Features

Standby Operation

1	Enter "Set-up & Edit"	After pressing MENU for 3 seconds	See next Main Menu table
2	Snooze & View	Press SElect to silence any alarm for 5 minutes	Left/right will now list all active alarms. MENU returns to standby
1. Main Menu			
1.1	List	Lists all the nodes with access to a sub-menu of features	see 1.1.1. below
1.2	USERmode	Changes main user operating features.	eg Light, Sound and Vibration See 1.2 below
Password (bypassed for Extended Users)			
1.3	TurnOff	Turns off the pager	Restart by pressing MENU key 3 seconds
1.4	ClearAll	Resets all alarms	They will be reactivated if the node is still transmitting an alarm message
Password			
1.5	AddNode	Add a node manually (with address/type/failsafe/name)	Enter Address, Type, Failsafe on/off and rename
1.6	Function	Enables & Disables features	See 1.6 below
1.7	Data Programming	Enables the pager to be upgraded (Flash) or the node information to be overwritten (User Data)	used with the P146 USB Interface
1.8	Set Pass	Set Supervisor password	Default 0000

Sub menus from above main menu items follow

1.1	List sub_menu		
1.1.1	List	Scroll left & right through the list of nodes and press up to select one for detailed menu (see below)	The list will only show new nodes in "Auto-add" mode (see 1.6), until they are registered
1.1.2	Register All	In "Auto-add" mode the last item in the node list allows all the new nodes to be accepted and registered	Does not appear in normal mode
1.1.1.1	Property Only supervisor can edit by entering password in main menu	Shows node address/type & status. Select No to manually edit values if allowed.	Also shows: W= Wander mode enabled F= Failsafe mode enabled
1.1.1.2	ResetAlm	Clears latched alarms for this node only	Normally cleared when the transmitter module is reset.

1.1.1.3	Rename	The node name can be changed	
Password			
1.1.1.4	Wander	The wander mode can be Reset (turned off), Automatically set	See configuration manual for full details.
1.1.1.5	Program Unit	Current node setting sent to a connected module to clone it.	Connect lead to transmitter module first. Press YES to complete action. If successful "SAVING" displayed and returns to LIST
1.1.1.7	Delete	Delete the current node	Confirm to activate delete
1.2 User_mode sub-menu			
	Light	Turns backlight on/off	
	Vibrate	Enables vibrator on alarm	
	Tunes	Silences tune playing on alarm	
	Key beep	Silences the beep on key press	
	RF Tune	Enables tune for RF Fail Alarms	Useful to silence alarm if equipment node off
1.6 Function sub-menu			
	ViewBatt	Displays battery status between	Otherwise Battery State only shown every
	ViewAll	Show the radio strength and name of every node when data is	as opposed to only showing alarms when they occur
	UserExt	Allow user extended functions	
	Auto-add	Allows each new node to be automatically registered with the pager	The subsequent process is to review the list of new nodes, edit or delete as required and then accept them into the registry. Automatically reenables ViewBatt and ViewAll and disables
	Battery	Turns off the receiver between	Can delay alarms by up to 8 seconds.
	ErrShow	Show internal error codes	For engineer use in system checking. Automatically reenables ViewBatt and
	Node test	Shows precise information about the node radio strength and frequency. The USB port also logs all the node packet details at	For engineer use in system checking. Automatically reenables ViewBatt and ViewAll and disables BatSave
	DataOut P137 only	Enables transmission of alarm data through the P146 USB	Cannot be enabled in BatterySave mode. See Programmers Handbook for full details