CPI INTERFACE MODULE

The CPI Interface module will operate with both CarePlus and CareTech head end systems to provide interconnection with the Bestlite displays. It has 4 Alert inputs which are either positive or negatively triggered. It also has a Night switch input for lower Alert tones. These are individually settable for each of the inputs.

Set-up is carried out with the aid of an O'LED display as shown on the front panel with a single selector knob.
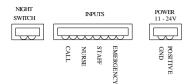
Also provided are both speaker output and line output for additional alert sounds external to the Bestlite displays.

FEATURES:

- 12 to 24V DC operation
- No audio cabling required to the displays.
- Optically Isolated Night Switch
- Optional Audio Output 2watts
- RS485 Buss to Bestlite displays
- RS232 Input from Head End system.
- Pluggable Connectors
- 1RU Rack mounting

SPEAKER OUTPUT   LINE OUT

8 Ohm   - GND +

RS232 SERIAL INPUT   BESTLITE RS485 OUT

B GND A

NIGHT SWITCH   INPUTS   POWER 11 - 24V

CALL   NURSE   STAFF   EMERGENCY   POSITIVE GND

CONNECTIONS

Speaker out

Drives 2W into an 8ohm speaker. Do not load to less than 8 ohms.
Take care not to connect 24V power to this connector!

Line out

Differential line level audio output. Maximum level is ~8Vp-p.

RS485 output

RS485 data to be cabled to Bestlite displays.

Alert inputs

These are optically isolated inputs for alert levels Call, Nurse, Staff, and Emergency. They work with either polarity between 8 and 30V.

Night

This is an optically isolated input, which can be used to modify the volume of alert tones.

Power

Power supply input, requires 11-28V @ 700mA.

RS232 input

This accepts the display data output from the head end, which would previously have been used to drive a Betabrite display. Baud rate is 9600.

CONTROLS

Rotary selector & button

This is used to access the menu, and configure alert tones, levels, and other options.

Line out volume control

Controls the output level on the line out connector.

Speaker volume control

Controls the output level on the speaker connector.

MENU SET-UP

To enter the setup menu, press the rotary selector, the top line will display "CPI-SETUP", rotate the knob to choose a menu option, and press the knob again to select it. Options are:

CALL / NURSE / STAFF / EMERGENCY
Selecting one of these enters a sub menu for configuring the alert level. Options within the sub menu are:

Tone (x)
Select one of the available tones.

Day (x)dB
Select relative output level when night input is not active.
0dB(loudest) through -24dB(softest), in 6dB steps.
This setting can be used to change the volume depending on which alert level is active.

Night (x)dB
Same as Day dB setting, only used when the night input is active.
This setting can be used to provide a lower volume at night.

Sound once / Continuous / Repeat (x)s
Some alert tones can be configured to repeat every X seconds, sound continuously, or sound only once. These options are limited depending on which tone is chosen.

Exit
Exit the alert submenu and return to the main menu.

Tone generation
This setting can be "CPI & Bestlite" or "CPI only".

CPI & Bestlite.
This means that the Bestlite display itself will also generate the tones, and there is no need to run audio signal cable between the CPI and Bestlite. In fact if this option is used you must NOT connect the audio signal cable, or the two will conflict.

CPI Only.
With this option, the Bestlite will not generate tones locally, and only the signal cabled to its audio input will be heard. This is how the Mavis product is normally used.

Default settings
Selecting this will default all the settings. Default settings are compatible with the Mavis, apart from tone generation which defaults to CPI & Bestlite.

Exit
Select this to exit the main menu. The CPI will not continue to function until you exit the menu.