AE2000 Central Processing Unit (Mk2)

- **AE2000** is a field programmable micro-controller based NurseCall Central Processor (Engine)
- Based on the highly reliable Questek Mk2 Scanner electronics
- Drives a network of up to 99 Data Interface Modules (DIMs) giving up to 1584 inputs
- Inputs can be from the full range of Questek CareCall call stations as well as duress, security and a wide range of other input devices
- Supports three levels of call priority

Level 1	CALL	patient to nurse,
Level 2	ASSIST	nurse to nurse &
Level 3	EMERGENCY	staff calling the crash team,

- Outputs to a network of 3, 4 or 5 digit annunciators with addressing,
- Has an output to drive the QuesSoft Management software
- Has an output to operate a printer in real time
- Includes an adjustable 15 volt DC 10 Amp power supply which can power the networks of DIMs, annunciators and paging system. It is adjusted to 13.8 volts to support the battery back-up optional.

OPERATION:

- Scanner continuously scans (communicates in sequence) each DIM to find active inputs
- When an active input is found, its call message is sent to the appropriate annunciator/s
- Can support a network with up to 8 individual annunciator addresses
- Multiple active calls sequence on annunciators,
- High level calls replace lower level calls on annunciators and use appropriate ding sounds
- If selected, the call is sent to its serial port for processing in the optional QuesSoft system
- If selected, the call is sent to its parallel printer port for printing in real time
- If selected, the call is sent to its paging port for paging. QuesPage, AEC, Nira, Ascom, Ericsson paging systems can be supported
- The call is held in memory for repeat calling and a single level of call escalation
- When a active input is cancelled, the message is removed from the annunciator/s
- Cancel messages are optionally sent to QuesSoft and the printer.

SPECIFICATION:

Case: Wall Mounted, Steel enclosure,
Cream Powder Coat finish.
Size: 380mm high x 268mm wide x 73mm deep

ELECTRONICS:

Microprocessor with: 16K program memory
8K RAM, 8K battery backed set-up memory with clock calendar,
4 serial ports for: RS232 for QuesSoft,
DIM network (Questek data protocol),
RS422 Paging port, and
Synchronous data Annunciator port

1 parallel printer port (standard Centronics)
16 button keypad and 2 line 16 character LCD
display for field programming,
12 VDC operation - 400mA

There are a series of options for the AE2000. These are additional to the basic AE2000

1. **AE2020** Is an OPTIONAL Back-up Battery and battery management electronics for the AE2000. The battery is a 7 Amp/Hr 12 volt unit with typically 4 hour backup. Back-up duration depends on the load and can as long as 10 hours.

2. **AE2200** Is an OPTIONAL paging POCSAG upgrade for the AE2000. It includes an alpha-numeric POCSAG encoder board, transmitter and antenna. As the AE2000 is a numeric device and the POCSAG Paging System is alpha-numeric, the encoder includes a numeric to alpha-numeric message translation. It supports:

    - ✓ Alpha-numeric messages to field programmable pagers.
    - ✓ Repeat calls with selectable repeat time
    - ✓ Transfer calls (call escalation) to a fixed pager after a set number of repeat calls

3. **AE2300** Is an OPTIONAL protocol converter that takes numeric annunciator messages from the AE2000 and converts them to Alpha-numeric messages for the Questek 7 character Alpha-numeric annunciators (AD1MA7). This option has a message table that includes all messages required for a site. These messages are programmed into the AE2300 in the factory. The AE2000 is then field programmed to select message numbers that are translated in the AE2300 into the required alpha-numeric message. This option supports:

    - ✓ AE2000 field programmable annunciator addressing,
    - ✓ AE2000 field programmable priorities with associated sequencing and
    - ✓ three levels of audible alert (ding).
    - ✓ This option can not be used with the AE2200 paging option.

5. **AE2400** In an OPTIONAL protocol converter that takes AE2000 paging data and converts it to the QPAGE3 protocol. The QPAGE3 POCSAG Paging system allows for telephone coupling and Networked Computer paging.

AE2000 Series Engines including AE2020 battery backed option and AE2200 paging option or AE2300 protocol converter option is housed in two wall mounted steel case. The cases are 268mm wide x 380mm high x 73mm deep. One case houses the AE2000 electronics and the second case houses the power supply and any arrangement of optional AE2200, AE2300 and AE2020.

