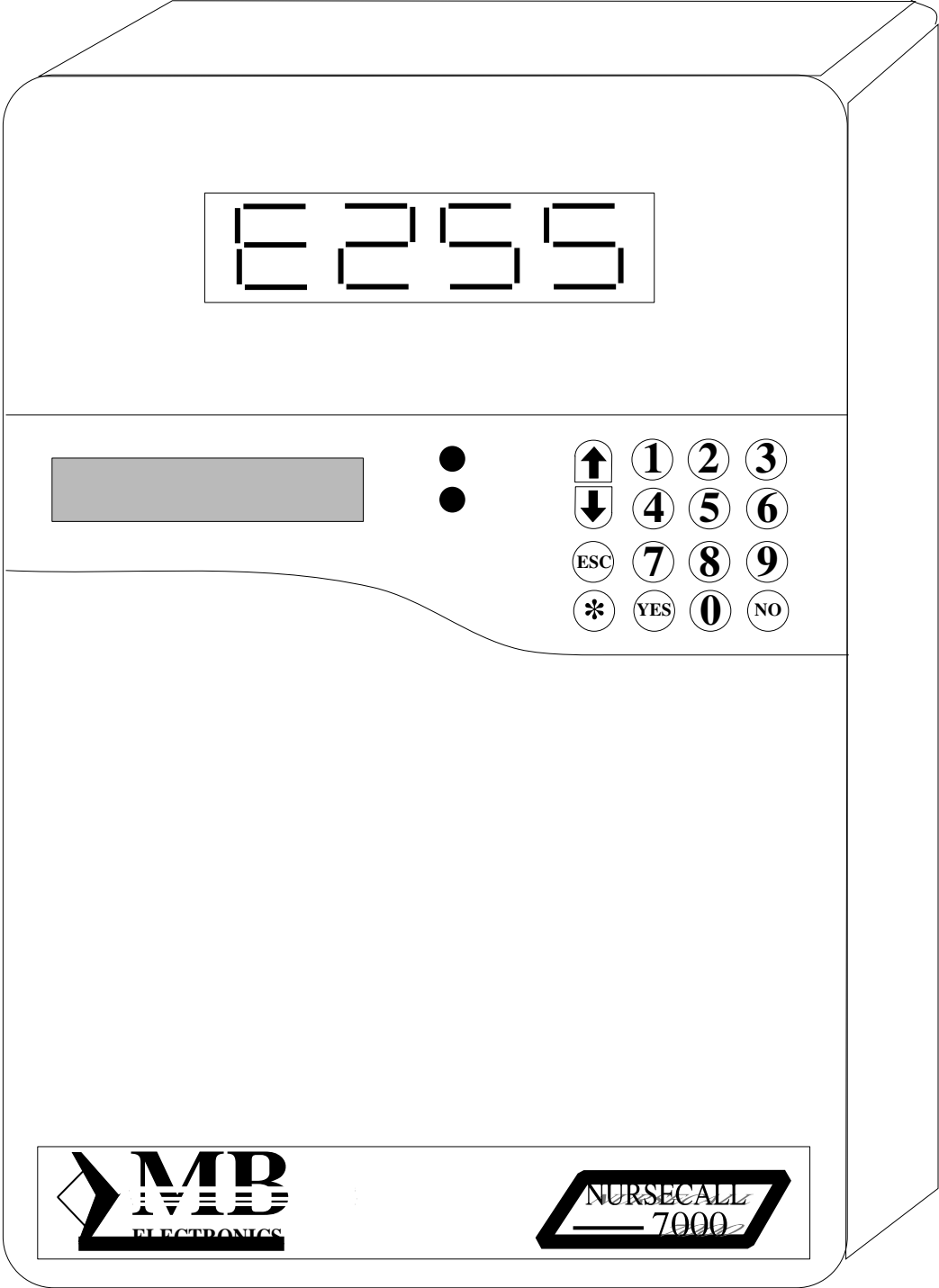


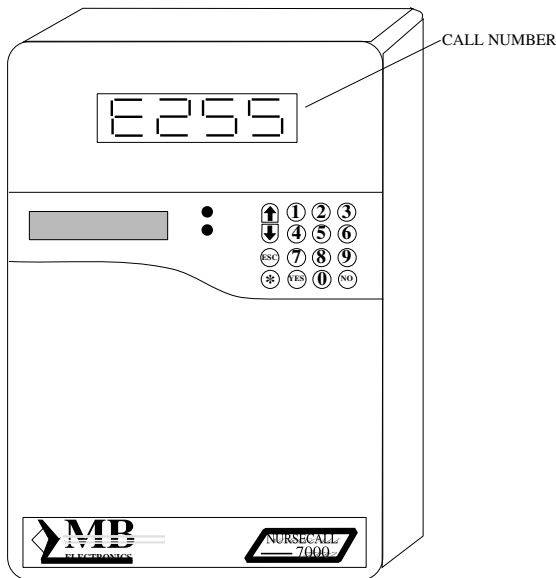
**MCR 7000 CALL PROCESSOR
NURSE CALL SYSTEM
USER GUIDE**



CONTENTS

Pages	(3,4,5)	MCR CALL PROCESSOR	Diagrams and Guides
Page	(6)	MCR CALL PROCESSOR SET UP PROCEDURE	
Page	(7)	3002NC CALL TRANSMITTER	Guide
Page	(8)	CODING OF TRANSMITTERS	
Page	(9)	PAGING SYSTEM	(optional)
Page	(10)	PRINTER	(optional)
Page	(11)	FAULT FINDING	

MCR CALL PROCESSOR



CALL NUMBER

This bright four digit L.E.D display identifies the priority and location of the call. The first digit will indicate P for a patient call, A for assistance or E for an emergency call. The next three digits will indicate the room number ie. A255. When no calls are waiting the display will show dashes ie. - - - -

STATUS DISPLAY

This L.C.D display is used for additional information such as system status, time and the next four calls in the system.

KEYBOARD

Used for initial set up of system (see setup procedure) also used in conjunction with pagers and printers if fitted to the system.

'ESC' MUTE BUTTON

All audible warning sounds will be muted on the system when this button is pressed. All calls and warnings will still continue to be displayed. The sounder will restart after one minute, or if another call is received.

'*' MEMORY BUTTON

The last 1000 events can be scrolled back on the status display by pressing this button.

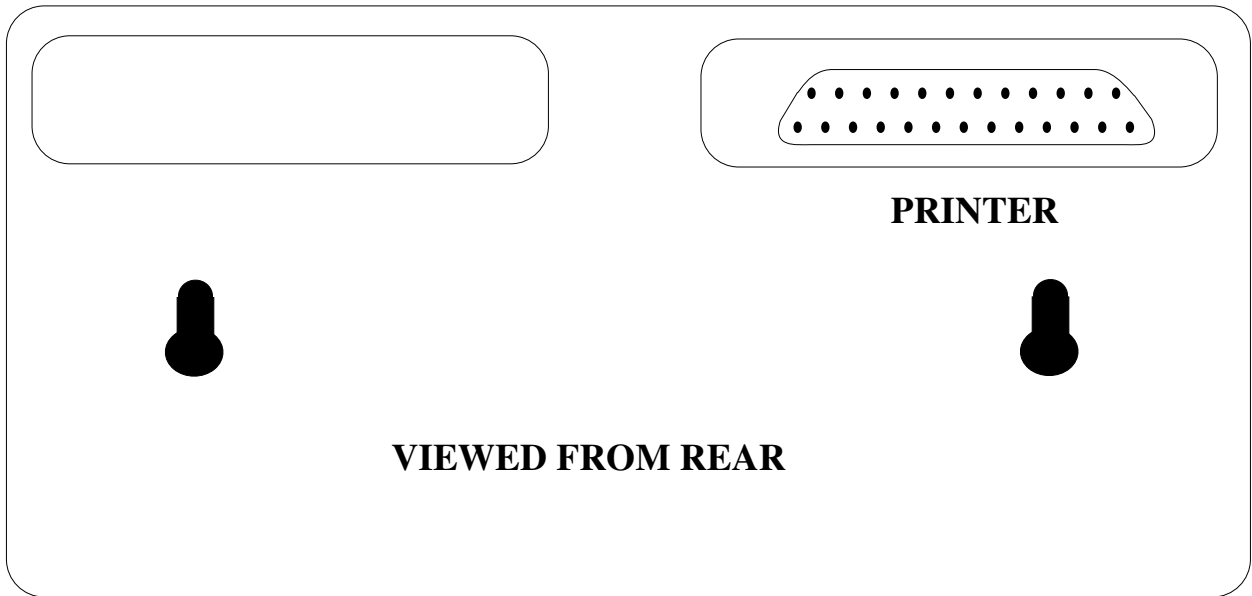
↑ PAGER BUTTON (also used for volume up)

If a paging system is fitted a pager or all pagers can be contacted via the this button and the keyboard. (see paging system)

↓ PRINT BUTTON (also used for volume down)

If a printer is fitted this button activates a printout of up to the last 1000 events.

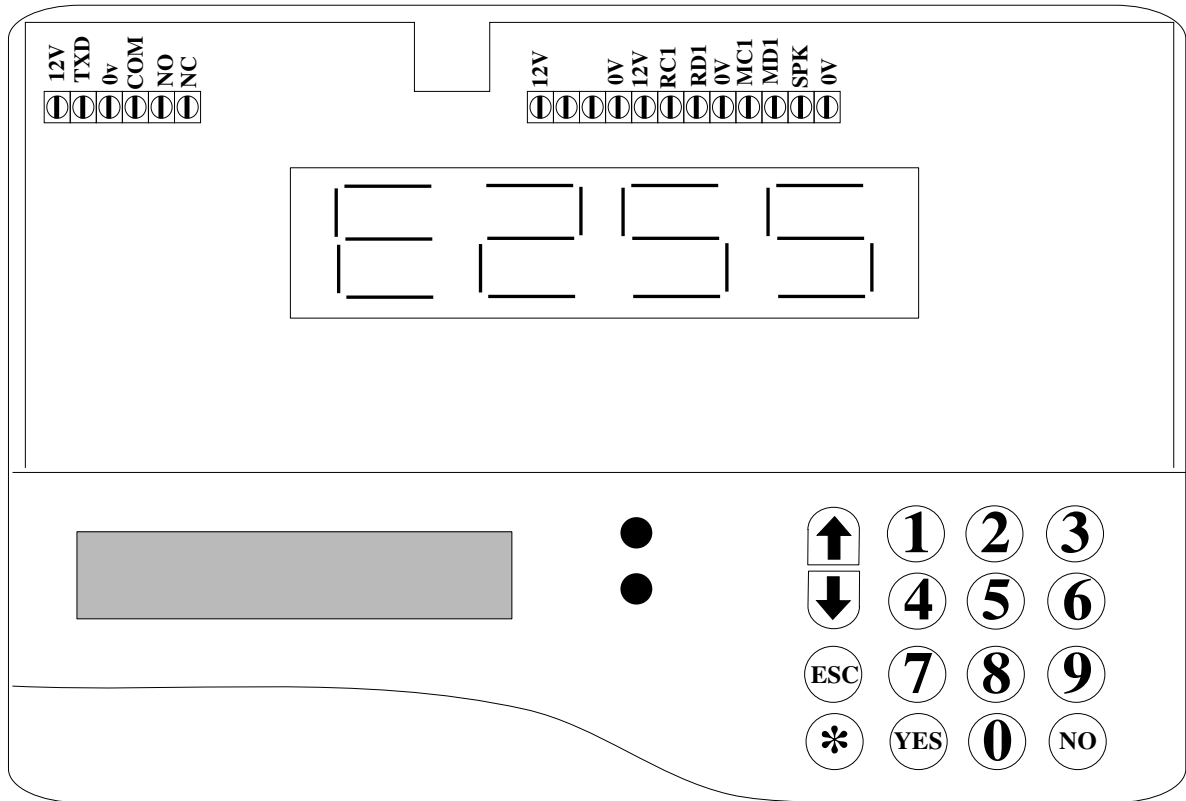
MCR CALL PROCESSOR



PRINTER CONNECTOR

Any dot matrix parallel printer may be used.

MCR CALL PROCESSOR



Radio Receivers

12V, RC1, RD1 & 0V The external radio is connected via these connections.

Mimic Panels

0V, MC1, MD1 & SPK An external mimic panel may be connected via these connections.

SAFETY FEATURES

The MCR call processor continuously monitors the mains power supply, and radio connections. If a failure occurs a warning will be displayed on the L.C.D display. In the case of mains failure an additional audible warning will sound every minute also the red L.E.D on the front of the M.C.R will extinguish whilst the standby battery is in use.

SET UP PROCEDURE

Pressing KEYS 1,2,3 in sequence at any time will enter the SETUP PROCEDURE.
This will allow you to change the TIME and DATE of the MCR call processor.

PLEASE FOLLOW THE INSTRUCTIONS BELOW

PRESS KEYS 1,2,3 IN SEQUENCE

ADJUST VOLUME will be displayed on the L.C.D

press yes or no

If the answer to the above question is yes

Adjust Volume

Press Up & Dn Keys will be displayed

Use the up & down arrow keys to adjust to the required volume, press the ESC key to exit this mode

CHANGE TIME will be displayed on the L.C.D

press yes or no

If the answer to the above question is yes

ENTER TIME

HH:MM 24HR will be displayed

Enter current time in 24 hour mode Example: 1706=5:06pm

ENTER DATE will be displayed

press yes or no

If the answer to the above question is yes

ENTER DATE

DD/MM/YY will be displayed

Enter todays date eg. 160105

The L.C.D display will now display

16/01/05 TIME 17:06

Ver 3.00 100 h00 The processor is now in receive mode

NURSE CALL TRANSMITTER

The 3002NC transmitter has been designed to work in conjunction with the MCR call processor alarm receiver. Each 3002NC is capable of transmitting three possible priority codes, (plus low battery & faulty lead warnings) as well as its own identity number.

These three conditions are:

PATIENT	(used by patient)	Displayed as P???	with a slow single tone
ASSISTANCE	(used by staff)	Displayed as A???	with a rapid single tone
EMERGENCY	(used by staff)	Displayed as E???	with a rapid two tone
CANCEL	(used by staff)		

L.E.Ds

The red L.E.D will light whenever the 3002NC is in the alarm condition. This can be reset by use of the cancel switch.

Whenever the 3002NC is transmitting the green L.E.D will light.

PRIORITY

Each alarm condition has a priority level.

EMERGENCY is the highest

PATIENT is the lowest

If a patient call is all ready in system and an emergency code is transmitted, the emergency code will become the top call.

The PATIENT code is activated by use of the (pear push) or (pull cord). Once this has been activated, the red L.E.D will light, and the 3002NC will transmit a patient code which is repeated every 2 minutes until it is cancelled by use of the CANCEL switch, which will switch off the red L.E.D and remove the patient call from the MCR alarm receiver.

NOTE: If the pear push lead is removed or broken the 3002NC will transmit a patient code ,this can be reset but only the assistance & emergency buttons will be usable also a warning tone will sound and the letter F will be displayed with the unit number to indicate a faulty lead.This fault code will be overwritten by any of the alarm conditions.

The ASSISTANCE code is activated by the use of the green assistance switch on the front of the 3002NC. Once this has been activated, the red L.E.D will light and the 3002NC will transmit an assistance code. This code will be repeated every 2 minutes until it is cancelled by the use the CANCEL switch.

The EMERGENCY code is activated by the use of the red emergency switch on the front of the 3002NC. Once this has been activated, the red L.E.D will light and the 3002NC will transmit an emergency code. This code will be repeated every 2 minutes until it is cancelled by the use the CANCEL switch.

The CANCEL code is activated by use of the black CANCEL switch.

LOW BATTERY MONITOR

Once the battery voltage drops below the desired level, a low battery code will be transmitted to the MCR call processor this will be displayed as L???

where ??? is the identity of the transmitter. The low battery code can only be removed from the MCR call processor by replacing the battery in the 3002NC transmitter and then transmitting a good code to the MCR call processor. This low battery code will be overwritten by any of the alarm conditions.

WHEN ORDERING SPARE TRANSMITTERS PLEASE QUOTE THE VERSION NUMBER,THIS CAN BE FOUND ON THE SMALLER DISPLAY OF THE MAIN PANEL

Nurse Call Transmitter Identity Coding

This instruction sheet contains a detailed description of the encoding technique required to assign each transmitter a unique identity number.

Upto 999 transmitters may be used on the system and each one can be coded with its own identity number

Each button on the unit is used to assign a number to the unit.

The RED EMERGENCY button will assign hundreds each time it is pressed.

The GREEN ASSISTANCE button will assign tens each time it is pressed.

The BLACK CANCEL button will assign units each time it is pressed.

- 1) First fit the battery (and fit the pear push lead if the unit is not a pull cord type) to the unit that requires coding.
- 2) Press and hold the cancel button, whilst the green LED is illuminated also press and hold the emergency button, the red LED will flash twice & then remain illuminated.
- 3) Release both buttons.
- 4) Each press of a button will make the RED led flash, this to help you when coding.
- 5) After you have coded the unit you exit the coding routine by pressing the pear push lead or pulling on the pull cord.

EXAMPLE

To give the unit the identity number 865, proceed through steps 1 to 3

Press the RED button 8 times (the red led will flash 8 times).= **800**

Press the GREEN button 6 times (the red led will flash 6 times).= **60**

Press the BLACK BUTTON 5 times (the red led will flash 5 times).=**5**

Activate the Patient lead or cord.

To check that the number is correct activate any of the alarm conditions.

HOUSE CODE

The house code is normally factory set to (0) but if this has to be changed this is done by the 2 *3 way switches that are above the battery.

The lower bank have the values

Switch 1 = 1

Switch 2 = 2

Switch 3 = 4

The upper bank have the values

Switch 1 = 8

Switch 2 = 16

Switch 3 = 32

To select house code 17 switch on(up)1 on lower bank & 2 on(up) upper bank (1+16=17)

ASTRA 6000 PAGING SYSTEM

The MCR call processor can at any time have a paging facility added to it. The advantages of this are twofold:

- 1) All transmitted calls from the transmitters will automatically be received by the pocket pager
- 2) A pre-programmed message can be sent to all pagers or an individual pager from the MCR keyboard

The use of pagers allows greater flexibility for staff and allows calls to be received up to 1000 metres from the MCR.

Sending A Pre-programmed message

After pressing the ... key you will be asked for a pager number this is a two digit number in the range of 00-99. (please note: a pager number of 00 will send the message to all the pagers on the system)

you will then be asked for a message number in the range of 1-9 this number corresponds to the following table:

Message 1	KITCHEN
Message 2	BACK DOOR
Message 3	FRONT DOOR
Message 4	FIRE
Message 5	GO TO EXIT ONE
Message 6	LEAVE BUILDING
Message 7	CONTACT MATRON
Message 8	PHONE CALL
Message 9	OFFICE

PRINTER

An optional parallel printer may be connected to the MCR receiver to record all events.

BEFORE CONNECTING THE PRINTER TO THE PROCESSOR ENSURE THAT BOTH UNITS ARE SWITCHED OFF.

Once connected the printer will print all events as each transmitted call is received.

eg. Event Ref No. 001 DATE 17/03/96 TIME 18:40 EMERGENCY CALL ROOM 075

Printing Calls for a specific date:

After pressing the key you will be asked to enter a date.
all Calls on this date will be printed as follows:

eg. E075 RECEIVED 18:40 CANCELLED 18:41
P001 RECEIVED 19:54 CANCELLED 19:55
P004 RECEIVED 20:00 CANCELLED 20:01