



Alpha-Numeric Annunciator

AD1C13	58mm, Single Sided, 12 Character, 3 Colour
AD2C13	58mm, Double Sided, 12 Character, 3 Colour

- The AD1C13 is an Alpha-numeric annunciator that uses a display panel with a matrix of 64 x 8 LEDs, 486mm long x 58mm high. The LEDs are two colours, red and green and can display messages in Red, Yellow and Green. (Yellow is red and green displayed together)
- It is designed to operate with the range of NurseCall central equipment to display call messages.
- There are two versions – single sided AD1C13 and double sided AD2C13.
- They are electronically compatible with the older types AD1C12 and AD2C12 that they replace.
- Housed in moulded Plastic Cases for Wall or Ceiling mounting for the single sided version and ceiling mounting for the double sided version.
- Connection is by RJ45 connector on the rear and top for the Single sided unit and top only for double sided unit.
- Primary address DIP switches and function select jumper links are located under a snap off cover at the left end of the front panel of the Annunciator making setting easy.



- These annunciators can operate in either of two communication modes. Mode 1 and Mode 2
- Mode 1 operation is selected by installing LINK 8 on the function select jumpers on the front panel. In Mode 1, messages up to 7 uppercase characters long can be displayed. There can be up to 8 individual addresses used in Mode 1 configuration.
- Mode 2 operation is selected by LINK 8 not included. In Mode 2, messages between 10 and 14 characters long can be displayed in both upper and lower case. The actual message length depends on the characters within the message. A Mode 2 annunciator must have its own primary address (1 to 254), set on its address DIP switch in binary. Up to 18 secondary/group addresses can be programmed using the Anntester software tool.
- The display is clearly visible from 20 metres on axis under normal interior lighting levels.
- Displays are RED for High Priority, YELLOW for medium and GREEN for low priority.
- Includes Ding Sounder with three ding patterns and volume control in three steps.
- Ding sound for low priority calls (caller calling for a nurse) - one ding repeating each 10 seconds.
- Ding sound for 2nd priority calls (Assist) - two dings repeating each 5 seconds.
- Ding sound for 3rd level high priority (Emergency) calls - continuous ding repeating rapidly.
- Volume control is via hardware LINKs for Mode 1 (Off, Low, Med, High)
- Volume control is via software for Mode 2 (Off, Low, Med, High)
- Can be connected or disconnected from the system with the power on.
- Manufactured to comply with the requirements of Australian Standard AS3811.

OPERATION:

- When the Annunciator receives a message, the address in the messages is checked.
- If the address does not match the annunciator's address, the message is ignored.
- If the address matches, the message is displayed.
- The colour of the display is selected to match the priority of the message.
- The ding sounder sounds with the appropriate ding sequence for the message priority.
- If there is more than one message of the same priority, messages are sequenced with 2 seconds display of each message. If a higher priority message (call) is received, lower priority calls are removed and the high priority call is displayed. Lower priority calls return to the display when the higher priority call is cancelled.
- When all active calls are cancelled, the annunciator is blanked. The display blanks if no message is received for 1 minute. Messages must be re-sent to remain on display.

SPECIFICATION:

Size: 118mm high x 630mm wide x 52mm deep for single sided and 110mm Double sided.
 Display Panel: 59mm high x 488mm wide
 Mounting: With mounting bracket screwed to ceiling or wall. Can be tilted to eliminate reflections.
 Case: Injection Moulded Plastic
 Colour Ivory-white with white powder coat formed steel back panel.
 Front panel black masked
 Dots bright red (625nm) & bright green (565nm) (in PWM combination the display is yellow)
 Characters: 58mm High Moulded LED 8x8 matrix (8 matrices 64 columns)
 Format: 7 x 5 Dot Matrix with decenters
 Sound: Electronic ding sounder (3KHz bell) Level adjustment 4 levels (Off, Low, Med, High)

ELECTRONICS:

Driver: Alpha-C4 Module CMOS Technology with static discharge protection on inputs. 08AB32 Flash Micro-controller
 Operating Voltage: 12 VDC
 Maximum Voltage: 15 VDC
 Standing Current: 36 mA
 Dot Current: 1 mA per dot average multiplexed
 Multiplexer: 1 of 4 row sequence
 Typical Current: 60 mA in TEST, 320-420 mA with 7 characters, 500mA for 12 characters.
 Data: RS485 / ASCII / 4800 Baud / 8,1,N bidirectional.
 Format: Questek Protocol Mode 1 / Mode 2
 Connection: 8 pin, RJ45 Modular telephone connector
 Pin 1, 2 and 3 +12 volts DC supply
 Pin 4 A Data signal
 Pin 5 B Inverted Data Signal
 Pin 6, 7 and 8 V0 power supply return

MODE 1 ADDRESSING:

AD1C13 Annunciators have an 8 way DIP switch. Each switch (1-8) represents one address (1-8 respectively). Only 1 switch is allowed to be switched on in any annunciator.

MODE 2 (PRIMARY) ADDRESSING:

AD1C13 Annunciators have an 8 way DIP switch to set the Primary address. The address is set in binary (1 to 254). Primary addresses must be unique.