

Desk or wall mountable nurse/staff station console with 2 x 40 character vacuum fluorescent text display and alarm/call alert tones to visually and audibly announce the location and priority level of alarms/calls received from any bed station or other callpoint on an Austco nurse/staff call system with audio/two-way speech communication, and to answer or make calls from the console from/to any two-way speech point on the system.

Incorporates a tactile click membrane keypad mounted behind a water-resistant lexan film. The keypad is for use to mute alert tones, answer a call, make a call, make a public announcement, put calls on hold, alter patient/bed to nurse/staff pager assignments, edit pager messages and/or send pager messages to designated staff, as well as locate other staff when operating in the Staff Presence mode.

Call status is displayed in large clear character format and contains the time/date, call location, call type and priority of each call. In addition, call information is output to ports for display on remote corridor annunciators, pagers and/or wireless telephone handsets as well as for printing or input into other PC-based display and messaging systems.

Incorporates in-built tone sounder with six different mutable alarm/call alert tones.

Includes an intercom handset and hands-free panel with volume control and ANSWER/END button for immediate two-way speech communication between the console and the highest priority incoming call from a bed or other speech callpoint. Nurse to patient or group of patients' two-way speech calls from the console, and public address announcements are initiated by easy keypad actions.

Alarm/call messages are sent to pagers via a paging base in accordance with a dynamic pager assignment table. Primary and secondary levels of pager assignment for up to 32 patients/beds are provided for with automatic repeat paging and/or escalation. Staff can change pager assignment tables at any time using the keypad.

Paging incorporates functions to send pre-defined messages (up to 30) to a selected pager or pager group on simple PAGE key activation.

Alarm/call types, priorities and other response data such as display text, alarm/call alert tones and paging information is on-site programmable into non-volatile memory during installation or maintenance to suit the specific needs of users. (Requires connection via the serial printer port to a PC with the Site-Config Configuration tool.)

Active alarms/calls are automatically cancelled when answered from the console. Alternatively, cancellation can be programmed to only be

at point of origin only.

The capacity of a single MC-4220 is up to 256 alarm/call inputs from physical callpoints connected via callpoint controllers on an AustcoLink data bus. Multiple MC-4220 units can be networked together for larger installations, or for multi-ward installations with ward/room/bed swing between consoles, or to share a single paging base, other 3rd party messaging system and/or PC-based system such as Austco's Site-Management System Terminal software for centralised alarm/call data logging, date & time stamped reporting and centralised on-site programming.

Networking is via standard 10BaseT Ethernet/HUB and with the / ETH Ethernet communication module fitted to each MC-4220 to be networked.

Housed in a desk or wall mountable white powder coated industrial strength metal enclosure with externally accessible connectors. A 25-pin D-type wall outlet/socket mounted on a wall plate (AM-MWO/25) and a 1.2 m long umbilical cord plus 25-pin D-type plugs are included.

The MC-4220 has five standard interface ports:

- One 4-wire data bus I/O port (AustcoLink) to controllers
- One 4-wire audio bus port
- RS485 (or RS232) output (multi-purpose)
- RS485 (or RS232) output (typically display/paging)
- RS232 serial printer/programming port

The MC-4220 electronics are protected against power surges, near lightning strikes, cable shorts and power reversals. Automatic detection and reporting of the following faults and locations occur within 5 secs.:

- Cut or short data cable and location;
- Digital station (callpoint controller) failure;
- Loss of network connection.

Typical power consumption is 460 mA at 12V (525 mA max).

Designed to comply with:

- AS 3811 Hard-wired patient alarm systems for hospitals.
- HTM Bedhead services.
- UL1069 Hospital Signalling and Nurse Call Equipment
- BS EN 60601.1, CSA 601-1-M90 &
- UL 2601.1 Medical Electrical Equipment. General Requirements for Safety.



Manufactured in general accordance with the requirements of international quality assurance standard ISO9002.

### Dimensions & Specifications

<b>Height:</b>	120 mm	<b>Depth:</b>	195 mm
<b>Width:</b>	365 mm	<b>Weight:</b>	2.1 kg
<b>Mounting Method:</b>	Desk or surface mounted	<b>Wall Box size:</b>	(for wall outlet plate) Australian or North American single gang and round European ELKO 5421
<b>Operating Temperature:</b>	0°... 50°C	<b>Humidity Range:</b>	0... 85% (Non-condensing)
<b>Connectors:</b>	RJ45 socket for CAT5 Ethernet 9'D' (RS-232) for download/printer 25'D' for umbrella cable to wall outlet plate	<b>Cable Sizes:</b>	Ethernet CAT6 or CAT5 RS-232: Belden 9841 data or equivalent
<b>Current Consumption:</b>	495mA (standby) 635mA (max)	<b>Voltage:</b>	11Volt to 14Volt DC