

Telephone interface adaptor to interface a PABX telephone system to the room intercoms of an Austco call system of an Austco nurse/staff call system.

Enables nurses/staff to use their standard wired or wireless (DECT) telephone handsets installed on a site's PABX to answer active alarms/calls on the nurse/staff call system, or to initiate a call to a patient, and talk to the patient.

Enables nurses/staff to make Public Address announcements using standard wired or wireless (DECT) telephones.

Comprises a wall or under-desk mountable grey metal box enclosure with PCB's and the following connectors and indicators:

- 4-way modular analogue PABX extension/telephone line input
- 7-way screw-less terminal block for;
 - 12V power
 - Communication connections to nurse/staff station (A+, A-, CALL, COM)
- 3-way screw terminal block for RS485 "APB" interface connection to the nurse/staff station
- 9-pin D-type RS232 ports for factory test connection
- Power, telephone speech detected and intercom off hook LED indicators

(Note: The analogue telephone line input requires a pre-allocated analogue extension on the PABX on the site.)

Automatically answers incoming telephone calls on the analogue telephone line when ring tones are detected. Answers one incoming telephone call at a time. A busy tone is given to a caller if the TIA-AN3 is already busy with a call.

Provides confirmation of connection by way of a "dial tone" sound sent to the calling telephone for duration of 15sec. During this time and using the keypad on their telephone, nurses/staff are able to enter the number of the function they require (e.g. PA) or the room number of the active alarm/call they wish to answer. If no entry is made during the 15 sec. dial tone period the telephone call is terminated.

These numbers and their functions or correlations with two-way speech points in patients' rooms are configured and downloaded into the TIA-AN3 as part of each respective site configuration (using Site-Config)

Processes DTMF tones received as result of the telephone keypad

entry and required commands are sent to the nurse/staff station via Austco Peripheral Bus interface.

Entering a "#" during the TIA-AN3 dial tone period will result in an automatic connection to the highest priority active audio enabled alarm/call. Subsequent entry of "#" after such initial connection will terminate the current audio/two-way speech session and automatically connect to the next highest priority active audio enabled alarm/call.

Answered incoming telephone calls are connected through to the call/two-way speech intercom point of the room entered by the caller via the two-way speech (audio) channels of the system. Audible tones are sent to the telephone handset to confirm this connection.

On-board speech detection with automatic voice switching and gain control is provided for clear undistorted speech from most PABX telephone systems. (Site adjustment via on-board trim pots may be required for varying line conditions.)

After audio/two-way speech connection has been made entry of "*" is required to terminated both the audio/two-way speech session and telephone call.

Calls not terminated after an on-site configurable time (using Site-Config) are automatically terminated to ensure the allocated telephone extension and the nurse/staff call system's two-way speech channels are not engaged for excessively long periods thereby preventing access to other callers. (Default time is 5 min.)

The TIA-AN3 electronics are protected against power surges, near lightning strikes, cable shorts and power reversals.

Typical power consumption is 180 mA maximum at 12V when operational and 160 mA on standby.

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

Height:	275 mm	Depth:	60 mm
Width:	225 mm	Weight:	970 grams
Mounting Method:	Wall surface mount	Plate:	N/A
Wall Box size:	N/A	Housing:	Galvanised steel base plate Plastic cover
Cable Size:	2 core 2 mm ² TPS (AWG 14) power cable 4 core 7/0.25 mm (AWG 22) screened data cable for the AustcoLink bus 2 core 7/1.20 mm (AWG 24) data/security cable for each call input	Connectors:	Screw terminals for call inputs 6-way plug-on screw terminals for data link bus and power (+12V, 0V)
		Operating Temperature:	0°...50°C
		Relative Humidity Range:	0...85% (Non-condensing)