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V-Link II

VHF TELEMETRY SYSTEM

OPERATORS MANUAL

PRELIMINARY

Operating Manual - Cover Page

CAUTION

This instrument is intended for use in a hospital or clinical setting by trained and authorized personnel who are acting on the orders of a physician. Its purpose is the real time monitoring of patients over an extended period of time.

The operator should be thoroughly familiar with the information in this manual before using the instrument. As with all monitors, the system cannot replace skilled nursing care and proper surveillance. The transmitter power is limited as required by the Federal Communications Commission and thus has limited range. To insure continuous monitoring, instruct the patient to remain within the area covered by the antenna system.

WARNING

DO NOT USE THE OUTPUT OF THIS DEVICE AS A SYNCHRONIZATION SOURCE FOR CARDIAC DEFIBRILLATION. DELAYS IN PRESENTATION OF THE R-WAVE MAY BE AS MUCH AS 40 MILLISECONDS.

INFORMATION TO USER

WARNING:

This equipment has been tested and found to comply with the limits for a CLASS B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions contained in this manual, may cause harmful interference to radio and television communications. However, there is no guarantee that interference will not occur in a particular installation.

If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- * Reorient or relocate the receiving antenna
- * Increase the separation between the equipment and the receiver
- * Connect the equipment into an outlet on a circuit different from that of the receiver
- * Consult the dealer or an experienced audio television technician.

NOTE: Connecting this device to peripheral devices that do not comply with CLASS B requirement or using an unshielded peripheral data cable could also result in harmful interference to radio or television reception.

The user is cautioned that any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

To ensure that the use of this product does not contribute to interference, it is necessary to use shielded I/O cables.

GENERAL

The V-LINK II transmitter provides one way wireless communications between a bedside monitor at the patient site in a hospital and a nurse central station. The V-LINK II transmitter is installed on the side of a bedside patient monitor and receives its power from an external wall unit, the bedside monitor, or internal batteries. When used with a receiver, the V-LINK II forms a complete telemetry system that communicates between the patient bed side and a nurse central station. The system includes patient status alarm detectors, telemetry status alarm detectors, and a CRT display.

EQUIPMENT SITE SELECTION

The medical monitor is typically located at a nurse's or a special coronary care monitoring station. The VGA monitor may rest on either a table or a shelf at a height and a position for convenient operation and viewing. The central monitor may be installed at any location where it may be connected to the antenna system and where there is a convenient source of AC line power.

The medical monitor is intended to operate in a typical hospital environment. Heat dissipation is approximately 200 watts for the central monitor and an additional 200 watts for the VGA monitor. The equipment should be mounted in a manner to allow a minimum of 2 inches of air space at the rear and top of the unit for airflow.

Airflow will be from underneath the unit (air drawn in from the front), across the top, and exiting to the top rear. When mounting in a console, the console must be designed to allow cool ambient air to enter from underneath the unit and provide an exit at the rear to expel the heated air. **Any enclosure should be vented to provide an ambient temperature of <120 F.**

OPERATING INSTRUCTIONS

The V-LINK II transmitter should be installed onto the bedside monitor using the slide mount provided. Connect the V-LINK II to the bedside monitor with the RS-232, RS-422 or Ethernet cable wired to match the specific monitor.

ANTENNA INSTALLATION

This system operates in the 174-216 MHz frequency band. Transmitter output power and system operation requirements are defined by the FCC. **Therefore it is essential that the antenna provided not be modified or altered in any way by the end user.**