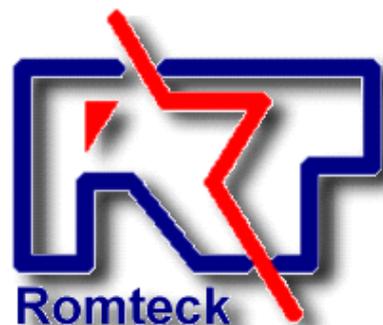




RM2100

ALARM CONCENTRATOR



- . Capacity for up to 1792 Alarm Transponders per Concentrator
- . Provides local outputs for alerting as well as communications
 - . Up to 4 Concentrators can operate over a single leased line
- Local voice annunciation of alarms when used standalone

The **RM2100 Series Concentrator** is a 19" x 6U high unit designed to provide all the required functions of an **Alarm Concentrator** within a ROMTECK Alarm Monitoring network. The **RM2100** is used to concentrate the dedicated communication lines from multiple, remotely located, Alarm Transponder units in buildings to a single communication line for transferring to a central monitoring site or in stand alone and failsafe systems the **RM2100** allows local alerting and monitoring of the Alarm network.

Up to four RM2100 Concentrators can be daisy chained on the same communication line to allow large single site installations to be catered for or in citywide applications to allow concentrators to be located up to 20 kms apart, thus reducing communication costs.

The RM2100 automatically monitors the communication links and in the event of a link failure will enter a standalone mode allowing all alarms to be managed locally through front panel or external indications and acknowledgment. The system also monitors the links to the connected Alarm Transponder Units and in the event of failure such as shorted or open lines will alert either locally or to the Central Monitoring site thus ensuring complete integrity of the alarm system at all times.

The system is used in many varying applications and can connect to a variety of external systems to allow alerting and management of the alarm network. These include mimic panels, computerised alarm management software such as "ALARMON", annunciation devices such as sonalerts and strobe lamps or using the in-built speech capability of the RM2100 to provide alerting over public address (PA) systems.

Typical uses are:

CITY FIRE BRIGADES
MILITARY BASES
HOSPITALS
MINE SITES

UNIVERSITIES
CASINOS
INDUSTRIAL PLANTS
GOVT. BUILDINGS.

The **RM2100** unit is able to accept plug in cards to enable configuration and sizing to suit particular applications. These boards provide the following functions:

2143 Controller Module is the main controller and radio/telephone communications card for the concentrator system.

2121 Line Driver Module connects to the remotely located Alarm Transponder units via dedicated lines. The RM2121 module can accept up to 128 Alarm Transponders each, thus providing monitoring of up to 1536 individual points or zones by each card.

2152 Modem/Speech Module is a combined board allowing connection to two dedicated communication lines for transferring data to other concentrators or to the Central Monitoring Centre. The module also provides speech capability to allow local annunciation of alarm information.

2110 Power Supply is used to power the rack and to perform supply monitoring and automatic changeover to backup supplies in the event of a power failure.

SPECIFICATION



2100 RACK UNIT

- ◆ 19" x 6U Rack
- ◆ 480mm x 270mm x 380mm

2143 CONTROLLER

- ◆ 80186 microprocessor.
- ◆ 512K ROM
- ◆ 256K RAM (Battery backed.)
- ◆ 2400 baud Full Duplex Modem
- ◆ 2 x Telephone interfaces.
- ◆ 1 x Radio interface. Voice/Data
- ◆ 3 x RS232 ports
- ◆ 7 x O/C Outputs
- ◆ 8 x Digital Inputs
- ◆ DTMF Transceiver
- ◆ 5 Tone Pager Transmitter
- ◆ Digital Calibration feature

2121 LINE DRIVER

- ◆ 64180 microprocessor
- ◆ 64 K ROM
- ◆ 32K RAM Battery Backed.
- ◆ 16 x FSK Lines
- ◆ 16 x Alarm Status LEDs
- ◆ RS232 port (Optional)

2152 MODEM/SPEECH

MODEM

- ◆ 64180 microprocessor
- ◆ 64K ROM
- ◆ 32K RAM (Battery Backed.)
- ◆ 2x leased line interfaces
- ◆ Synchronous and Asynchronous Communications modes.
- ◆ 8 x Modem Status LEDs

SPEECH

- ◆ 647180 microprocessor
- ◆ 16K ROM
- ◆ 512K RAM
- ◆ 1.5MB Speech memory
- ◆ 8 x Status LEDs
- ◆ RS232 Port (Optional)

2110 POWER SUPPLY

- ◆ Switch mode power supplies and on board regulators, offering greater efficiency .
- ◆ 240VAC/24VDC operation with low voltage sensing.
- ◆ Diagnostic LED's for Power indication.

It is important when considering the purchase of alarm monitoring equipment that on-going Professional Engineering Support be provided. Romteck offers the following services:

- ◆ SYSTEM DESIGN
- ◆ SYSTEM INTEGRATION
- ◆ INSTALLATION & MAINTENANCE
- ◆ ON-GOING SUPPORT

These services combined with many years of practical experience with fire services throughout Australia, provide the essential elements for a safe and reliable system that can be installed with confidence.

For further product information on systems described within this brochure or any other ROMTECK products please contact the nearest ROMTECK office shown below.



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