

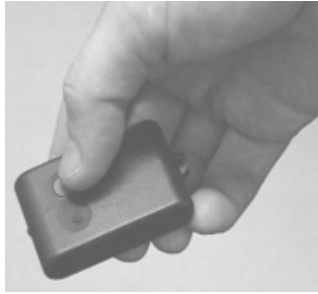
# **GENERAL SPECIFICATIONS For Emtech Access Control Systems Asset Tracking and Duress Alarms**



*Innovators In Technology*

**01-EM0401 RET Keys**

**01-EM0402**



Random Encryption Technology Key Fob style IR Key for use with all Emtech Access Control systems. The key transmits a high security encrypted rolling code to the controller.

This ensures that the code can not be counterfeited . The key has a battery life of in excess of 20,000 transmissions. This is approximately three years of normal use.

The Keys are available in a standard case or in a ergonomic styled casing. RET Keys have a range of up to 15 metres from the Reader making them ideal for applications such as car park entry, where there is now no need to wind down your window and present a card to the reader.

The IR Keys with Random Encryption Technology provide an excellent solution for applications such as Hospitals where the need for high security exists and the equipment must also be free from any RF transmissions that can cause problems with sensitive medical equipment.

**01-EM0403 ID Tag**



ID Tag Style RET Key is also available. The ID Tag can also be supplied as a passive device for hands free access to controlled areas, or for personnel tracking usage. The ID tag can have photo type ID information overlayed onto the tag. Read distance of ID tags is set to suit the individual application.

**01-EM0404 Duress Alarm/ ID Tag**

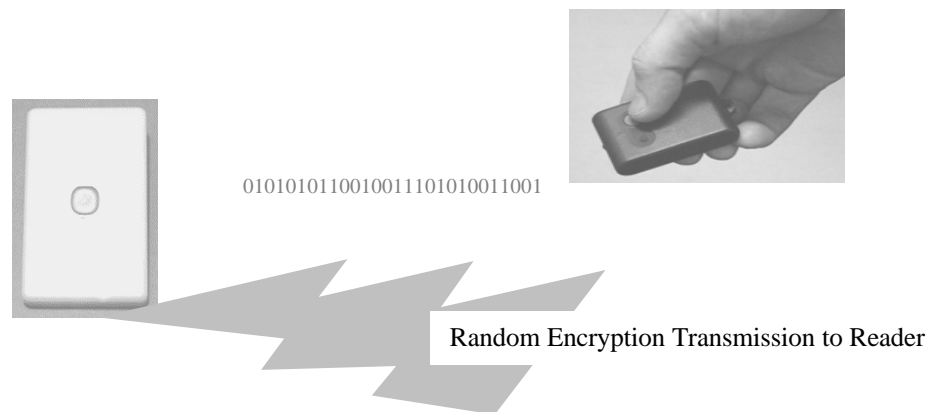
The pendent style RET Duress Alarm/ ID Tag provides a cost effective solution for both staff location reporting, hands free access to controlled areas and Duress Alarm. The battery powered unit provides both access control and duress alarm in the one small unit. By use of the active location control principles the location of the wearer is constantly monitored and recorded. Should the RET Duress Alarm/ ID Tag become invisible for too long or the duress button is pressed an alarm can be activated.



**01-EM0301 IR Reader Weigand**

Weigand output IR Reader that can read all Emtech Access Control System RET Keys or ID Tags and provide a Weigand output for connection to any Weigand type controller. Allows IR Readers to be used with virtually any manufacturers access control system. The Reader provides LED and audio indication of valid read. The Reader is mounted in a Clipsal 2000 style enclosure to match nearly any office or domestic décor.

There are no moving parts, or need to have the key contact the reader, plus the Reader is epoxy potted to provide protection in the most demanding environment.



**01-EM0302 IR Reader Emtech**



IR Reader for connection to any Emtech Access Control System Controller. Provides LED and audio indication of valid read. The Reader is mounted in a Clipsal 2000 style enclosure to match nearly any office or domestic décor. There are no moving parts, or need to have the key contact the reader, plus the Reader is epoxy potted to provide protection in the most demanding environment.

With this reader up to 128 units can be connected to an intelligent controller to provide for Guard Tour, Asset Tracking and Duress Alarm monitoring.

Emtech Access Control

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**01-EM0101 Single Door Stand Alone Controller**

(suitable for Emtech IR Readers only)

A Stand Alone Single Door Controller suitable for many applications especially Townhouse or Business units where there is the need for the convenience of remote operation along with the high security provided with the Random Encryption Technology. Keys can easily be removed from the program if lost or stolen.

Inputs: Reader

Request to Exit

Door Sense

Outputs: Door Strike Relay

Forced Door Alarm

Door Open Too Long Alarm

Users: 500 Users

Programming: IR Programmer

**01-EM0601 Single Door Controller with High Security Remote Fibre Optic Reader**

(Complete with two RET Keys)

The Controller would normally be mounted on the secure side of the door with ease of access to the lock mechanism, with the Fibre Optic Reader mounted on the adjacent entry side. The Fibre Optic Reader is of a similar design to a door peephole unit. The Controller has the same specifications as the single Door Stand Alone Controller and comes complete with the Fibre Optic Reader and two RET Keys

**01-EM0201 Multi Door Intelligent Controller**

The Multi-Door Intelligent controller becomes the basis of a fully expandable access system to suit small or large applications. It can be networked with up to 500 Controllers and up to 64,000 Readers for Personnel, Asset Tracking, Guard Tour and Duress applications.

Inputs: Two Weigand Readers (any Reader Type. IR, Prox, Mag Stripe, etc)

Up to 128 Emtech IR Readers

Door Sense X 2

Request to Exit X 2

Outputs: Door Strike Relay X 2

Forced Door Alarms

Door Open Too Long Alarms

The Controller provides a total of four inputs and four outputs when using Weigand type Readers. When using Emtech IR readers in lieu of Weigand an additional four inputs and two outputs are available. The configuration of inputs and outputs is fully programmable using the MX Software provided and a PC, or by using the Controller Keypad Programmer.

Time Zones: Up to 100

Holidays : Up to 10

Groups: As Required

Event Memory: Up to 5000 Events

Users: Up to 20,000 Users

Printer Output: For Audit Trail if not connected to a PC

The System can be networked with up to 500 controllers on the LAN.



**MX Software:**

Windows compatible Emtech Access Control Software. Supplied at no cost with Multi Door Intelligent Controller. It provides system configuration for your Access Control System allowing configuration for a small Single or Two Door System right through to Multi-Reader System with Personnel Tracking, Asset Control, Guard Tour and Duress Alarms.

**01-EM0501: Keypad Programmer for Intelligent Multi Door Controller.**



The programmer is a custom built stylish unit with an LCD display suitable for flush or surface mounting in any wall, or alternatively can be unplugged and stored until required. This unit is for use where a PC is not connected to the system.

**01-EM0502 IR Programmer for Stand Alone Controller**

A keypad style IR Programmer for programming the Stand Alone controller .



Keys can be programmed into the controller by using the numeric keypad or by transmissions with the controller in learn mode. Note: Due to the Random Encryption Technology all Key transmissions are secure from counterfeiting.

## Cable Specifications

All system cabling should conform to the relevant statutory requirements.

**RS232 Communications** are used from the PC to the Controller. All RS232 communications require 3 conductors and a maximum distance of 50 metres. Cat5 structured cabling can be used or cabling can as per Australian Security System Installation Standards.

**RS485 communications** is used for controller to controller or controller to IR Reader communications. RS485 communications require two twisted pairs and have a total maximum distance of 2000 metres. Cat5 structured cabling can be used or cabling can as per Australian Security System Installation Standards.

Additional power supplies can be installed in the LAN provided the +pos cable back to the PC form that point is discontinued. (see installation diagram)

**Wiegand Readers** require 3pair 20 or 22 AWG wire with an overall braided shield. Maximum distance is 100 metres with 22 AWG or 200 meters with 20 AWG. Wire. The installation manual for the individual readers should be consulted to confirm the number and size of the conductors.

