



SENTRY™
AUTOMATICALLY THE BETTER CHOICE

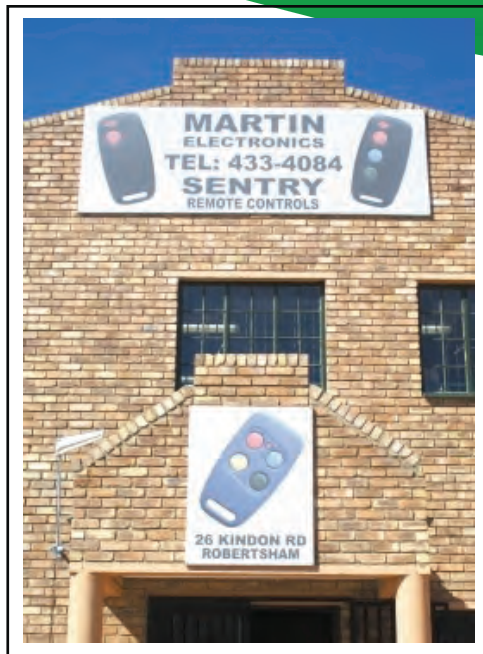


**PRODUCT
CATALOGUE**

Company Profile

Martin Electronics is a respected and well-known manufacturer of RF remote controls and security products and has established itself as the leader in RF remote controls for more than two decades.

The company manufactures remote controls, receivers, infrared beams, passive infra-red, garage door automation, gate automation, GSM communication and alarm system products under the Sentry™ brand name.



The company also manufactures products for OEM (Original Equipment Manufacturers) and custom markets and is deeply respected in this regard as it designs and manufactures not only its own products but specialised and custom products for specific customers and provides support for these products.

MARTIN ELECTRONICS strives to give service and backup second to none. Technical staff, as well as our engineers are available to give answers to technical or installation problems.

The equipment is installed countrywide and is available through a network of distributors in South Africa. Also available In England, Ireland, The Netherlands, Switzerland and Australia.

Further information is available on our website
Www.martin-electronics.co.za





SENTRY™

AUTOMATICALLY THE BETTER CHOICE

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ETSI 300 220-1



ETSI 300 683





Code Hopping Transmitters

The **SENTRY CODE HOPPING** transmitters use an encryption technology known as KEELQ, which is a secure protocol that is exceptionally resistant to grabbing and attempts at decryption. This protocol is also used by leading automobile manufacturers for remote keyless entry.

The transmitters do not feature any user-settable dipswitches. The transmitters are “learnt” into an available memory slot of a compatible **SENTRY** receiver or **SENTRY** product equipped with a receiver. Due to the encrypted nature of these transmitters, it is not possible to learn them into receivers of other manufacturers, even though the same technology is used.



METX1-C1



METX3-C3



METX4-CH



METX1-C403



METX4-C403



METX1-Q1



METX3-Q3



METX1-COM



METX4-COM

SPECIFICATIONS:

Power Source: Internal 12V Battery (Type 23A)
Frequency: 403.55 / 433.92MHz
Transmission power: 350mW
Current consumption: 9mA active
Physical Size: 65 x 32 x 14mm
Weight: 30g
Storage Temp: -10°C to +55°C
Operating Temp: 0°C to 40°C
Operating Humidity: <80%

Binary Transmitters

The **SENTRY Binary remote control** is a compact, handheld remote control operating in the 403MHz or 433MHz band. The transmission code is set by means of the internal dipswitch up to 4096 unique combinations.



METX1-B1



METX3-B3



METX1-B1/433



METX3-B3/433

SPECIFICATIONS:

Power Source: Internal 12V Battery (Type 23A)
Frequency: 403.55 / 433.92MHz
Transmission power: 350mW
Current consumption: 9mA active
Physical Size: 65 x 32 x 14mm
Weight: 30g
Storage Temp: -10°C to +55°C
Operating Temp: 0°C to 40°C
Operating Humidity: <80%

NOTE:

403.55MHz Is not sold outside southern Africa.
433.92MHz Is sold in black casings outside southern Africa.

Trinary and French Transmitter

TRINARY TRANSMITTERS



METX1-T1



METX3-T3

The **SENTRY Trinary remote control** is a compact, handheld remote control and the transmission code is set by means of the internal 9 way dip-switch to approximately 16000 unique combinations.

FRENCH TRANSMITTERS

The **SENTRY French code remote control** is a rolling code transmitter. The basis of the encrypted transmission code is set by means of an internal dip-switch.

METX1-F1



METX3-F3



SPECIFICATIONS:

Power Source: Internal 12V
Battery (Type 23A)
Frequency: 403.55 / 433.92MHz
Transmission power: 350mW
Current consumption: 9mA active
Physical Size: 65 x 32 x 14mm
Weight: 30g
Storage Temp: -10°C to +55°C
Operating Temp: 0°C to 40°C
Operating Humidity: <80%

Learning Transmitters

The **SENTRY Learning transmitter** is a product offered in 1, 3 and 4-button variants, each capable of learning an existing transmitter's code into its internal memory. These are transmitters that do not have the customary dipswitch, but feature an internal receiver that allows the user to "clone" the button of an existing transmitter, quickly, easily and conveniently.



METX1-L1



METX3-L3



METX4-L



METX1-L1S



METX3-L3S



METX4-L1S

SPECIFICATIONS:

Power Source: Internal 12V Battery (Type 23A)
Frequency: 403.55 / 433.92MHz
Transmission power: 350mW
Current consumption: 9mA active
Physical Size: 65 x 32 x 14mm
Weight: 30g
Storage Temp: -10°C to +55°C
Operating Temp: 0°C to 40°C
Operating Humidity: <80%



Dual Frequency Learning Transmitter

The **SENTRY DUAL FREQUENCY LEARNING** remote control is a handheld transmitter that has the capability of “learning” a button from an existing remote in both the **403 and 433MHz** bands. It is capable of learning binary, inverted binary, trinary, inverted trinary, French, Smart, and Code Hopping transmitters into each of the four buttons.

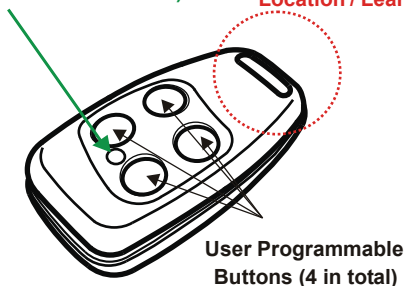


METX4-D

REMOTE CONTROL FEATURES

Bi-colour LED
(red = Tx at 403.55MHz)
(green = Tx at 433.92MHz)

Please Note
Receiving Antenna
Location / Learning Point



SPECIFICATIONS:

Power Source: Internal 12V Battery (Type 23A)
Frequency: 403.55 & 433.92MHz
Transmission power: 350mW
Current consumption: 9mA active
Physical Size: 65 x 32 x 14mm
Weight: 30g
Storage Temp: -10°C to +55°C
Operating Temp: 0°C to 40°C
Operating Humidity: <80%

Code Hopping Receiver

The **SENTRY CODE HOPPING Receiver** is a matching receiver to transmitter module offered in either one, two or three channel versions, standard or long range. It is capable of learning **SENTRY Code Hopping** & some other manufactured code hopping remote controls.



MERX2-C2



MERX1-C1



MERX1K-C/S



MERX3-C3

SPECIFICATIONS:

Power Source: 12-24VDC or 12-20VAC

Frequency: 403.55MHz / 433.92MHz

Physical Size: 90 x 66.5 x 30mm

Weight: 95g

Storage Temp: -10°C to +55°C

Operating Temp: 0°C to 40°C

Operating Humidity: <80%



Binary and Learning Receivers

The **SENTRY BINARY (DIPSWITCH)** and **LEARNING** receivers are paired with matching one, three or four button **SENTRY remote controls**. It provides a 1 AMP rated relay contact (dry) suitable for all gate motor, garage door or striker lock applications.



MERX1-L1



MERX3-B3



MERX2-L2



MERX1-B1

SPECIFICATIONS:

Power Source: 12-24VDC or 12-20VAC

Frequency: 403.55MHz / 433.92MHz

Physical Size: 90 x 66.5 x 30mm

Weight: 95g

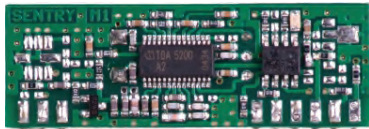
Storage Temp: -10°C to +55°C

Operating Temp: 0°C to 40°C

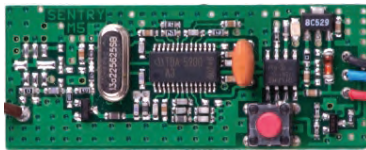
Operating Humidity: <80%

Receiver Modules

The **SENTRY M1 and M5 modules** are compact superheterodyne receiver modules designed for the reception of ASK (amplitude shift keying) remote controls operating at **403.55MHz /433.92MHz/868MHz**. The **M1** is designed to mount horizontally or vertically on a printed circuit board.

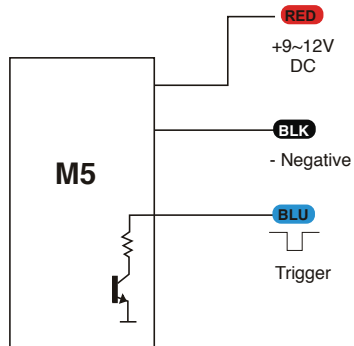


MERX1-M1



MERX1-M5

Pin No	Function
1	Antenna Input (wire antenna)
2	GND
3	GND
4	Not Used / CHANNEL 1
5	Not Used / CHANNEL 2
6	GND
7	Vcc Supply Voltage
8	Not Used / CHANNEL 3
9	TTL DATA Output



SPECIFICATIONS:

Power Source: 5-12VDC
Frequency: 403.55MHz / 433.92MHz
Physical Size: 50mm x 20mm x 12mm
Weight: 25g
Storage Temp: -10°C to +55°C
Operating Temp: 0°C to 40°C
Operating Humidity: <80%



220v General Purpose Receiver

The **SENTRY two channel general purpose receiver** is fully compatible with standard **SENTRY code hopping transmitters** in all button formats and can learn up to 20 unique transmitter buttons. It also provides two linked relay control channels, each capable of switching Typically 5 amps at 230VAC.

FEATURES:

Independently controlled relays.
Latch or timed pulse up to 30 min.
Optional on board transmitter with positive or negative trigger.
Various models available.

AVAILABLE MODELS:

MERX-LT - Standard 220v 2 channel receiver only

METXRX-LT - 220v 2 channel receiver with on board transmitters

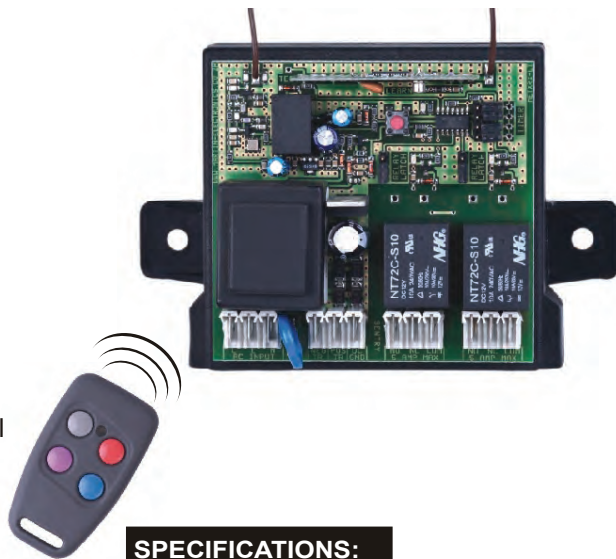
MERX-LT/12V - Standard 12-24v 2 channel receiver only

METXRX-LT/12V - 12-24v 2 Channel receiver with on board transmitter

MERX-PLT - 12v **Pool light** receiver

METXRX-LTE - 12v **Energizer** receiver with on board transmitter (re-arm fence energizer and send panic code)

Sold as a kit
1x 2 channel receiver
1x 4 button transmitter



SPECIFICATIONS:

Power Source: 16VAC or 24VDC
200 to 230 VAC
Frequency: 403.55MHz / 433.92MHz
Physical Size: 90 x 87 x 31mm
Weight: 373g
Storage Temp: -10°C to +55°C
Operating Temp: 0°C to 40°C
Operating Humidity: <80%

Stand Alone Receiver and Transmitter

SENTRY LONG RANGE STAND ALONE UNITS

Designed using code hopping format in the **403MHz, 433MHz and 868MHz** range. The typical uses include long range operation in large estates, or in areas where normal wireless products perform poorly due to clutter and/or interfering objects/structures. This product is also compatible with standard **SENTRY code hopping products**.

Typical Distance of 1km*

*Distance was measured line-of-sight and may vary

RECEIVER SPECIFICATIONS:

- Frequency: 403/433/868
- Power Source: 12-24V AC/DC
- Sensitivity: -118dBm
- Buzzer Annunciation when code is learned in plus in normal operation mode

MERX-T2 - 433.92MHz

MERX-T2S - 403.55MHz

TRANSMITTER SPECIFICATIONS:

- Transmission Frequency: 403/433/868
- Transmission Power: +8dBm Typical
- Modulation Format: ASK/FM
- Protocol: Code Hopping

METX-T2 - 433.92MHz

METX-T2S - 403.55MHz

Repeater also available soon





4 Zone Alarm Panel

The **Sentry 4 zone alarm panel** is a microprocessor based product with an onboard receiver, provides 4 hardwired zones as well as a remote panic and 2 output triggers that can be used for armed response purposes.

Bypassing of the zones is done on a 4 button remote control using a secure Keeloq protocol. It is a compact, low cost system that is easy to install and use with peace of mind.

PRODUCT FEATURES

- Four hardwired zones.
- Full remote control operation.
- Independent control for the siren and strobe.
- Onboard charger for a 12V backup battery.
- 24 Hour audible panic.

MEALM-4ZN - STANDARD
VERSION

MEALM-4ZBM - INSTANT
ARM VERSION



Passive Infra-red Detector

The **SENTRY Passive infra red detector** is the ideal motion detector for residential and office sites that require high performance at low cost. It makes use of digital processing techniques to improve the performance. Notable for its sealed optics, look down optics, temperature compensation and pulse counter.



The **Sentry detector** is a compact, sleek design and provides easy installation and is available in the **standard PIR only, PIR and microwave or wireless version.**

Available soon

SPECIFICATIONS:

- Sealed optics protects from insects.
- Lookdown optics.
- Temperature compensation
- Swivel bracket for ceiling or wall mounting
- Durable and elegant design.
- Digital processing technology.

MEPIR-01 - Standard
MEPIR-02 - PIR and Microwave
MEPIR-03 - Wireless



Wireless Control Keypad

The **Sentry Keypad** offers functionality, reliability and security for standalone activation of various devices. With low power consumption and using only two 'AA' size batteries.

APPLICATION

Use as a central controller for devices incorporating **SENTRY receivers**, like your gate, garages, striker lock, light switch and/or even alarm arming. (Some other manufacturers devices can also be controlled)

PRODUCT FEATURES

- Easy installation due to no wires being required
- 1000 unique codes using one to ten digits.
- Up to 15 channels output (activate 15 devices).
- Selectively add and delete user codes.
- Weather resistant.
- Backlit keypad.
- Build in Tamper Function.
- Backup module
- Operates on 2 x AA Batteries (approx. 3 years depending on usage)
- Compatible with all Sentry Code hopping receivers



MEKPD-01

Wiegand Protocol

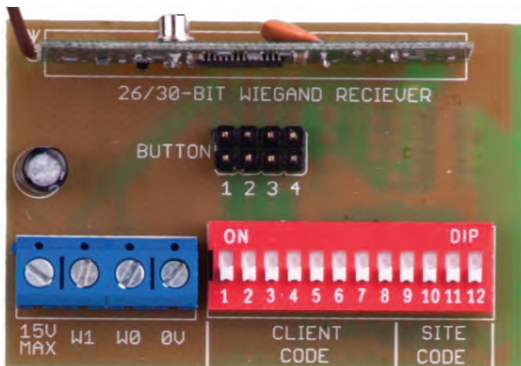
The **SENTRY 433MHz WIEGAND Transmitters and Receivers** communicates in the 26 or 30 bit WIEGAND protocol. WIEGAND is a *de-facto* standard used in industrial and access control applications.

SPECIFICATIONS:

Power Source: Internal 12V Battery
(Type 23A)
Frequency: 433.92MHz
Transmission power: 350mW
Current consumption: 9mA active
Physical Size: 65 x 32 x 14mm
Weight: 30g
Storage Temp: -10°C to +55°C
Operating Temp: 0°C to 40°C



METX4-W26
METX4-W30



MERX-W26
MERX-W30

SPECIFICATIONS:

Power Source: 12 - 15VDC (15V MAX)
Frequency: 433.92MHz
Receiver Type: Superhet
Sensitivity: -106dBm
Physical Size: 90 x 66.5 x 30mm
Weight: 70g
Storage Temp:
-10°C to +55°C
Operating Temp: 0°C to 40°C
Operating Humidity: <80%

**Site code and/or site code +
user number must be provided
when ordering.**
5-7 day lead time



GSM Communicator - Basic

The **SENTRY GSM Communicator** provides a stable and versatile platform for customers wishing to add remote switching and monitoring functionality to a wide variety of applications.

The **GSM Communicator** supports both SMS and GPRS communication options and offers multiple input, as well as output peripherals.

SPECIFICATIONS:

Hardware:

- +12V Input Voltage
- 2 x Relay Outputs
- 1 x Digital Output
- 2 x Digital Inputs
- Dual SIM
- And MORE...

Software

- SIM Lock
- GPRS with SMS backup
- SMS only
- TCP/IP Management
- Store 100 user numbers and MORE...



MEGSM-01

DCC02 Roll Up GDO

DCC02- the second generation garage door operator, designed specifically for roll-up curtain doors.

Product Features

- Operates from AC mains supply
- New 24 volt, 77 RPM motor for increased efficiency, and speed
- Electronic limits, **no need to set limit switches or adjust screws**
- and MORE ...

APPLICATION:

Automation of most domestic lightweight laminated aluminium doors.



Optional adaptor wheel



MEDM-RW

SPECIFICATIONS:

Input Supply Voltage: 200 - 250VAC 50/60Hz 120VA

Operating Voltage: 24V DC

Max. Lift Mass: 6kg

Opening Speed: 21 m/min

Duty Cycle- Mains Power:

40 % at 25 degrees C

Battery Backup Capacity:

max. 10 cycles

Max. Motor Current: 4.9A

Origin System: Optical

Encoder

Collision Sensing System:

Motor current and speed slope delta

Battery Type: 12V 1.3Ah sealed lead-acid (2 units)

Standby time with mains fail: 24-30 hours

Courtesy Lamp Timer: 30 seconds

Battery Charging Time: 12 hours

Operating Temperature: - 10 to +55 degrees C

Operating Humidity: 40 - 70 % RH (non condensing)

Remote Control

Frequency: 433.92MHz

Remote Control Type: Code Hopping

Infra-red Safety Gate Beams

The **SENTRY Gate Beam** is a standard infra-red barrier beam for gates or garage doors. It is a weatherproof design especially suited for use with all commercial gate automation products. It offers a maximum range of 15 metres, making it most suitable for any gate installation.



MEGB-15M

SPECIFICATIONS:

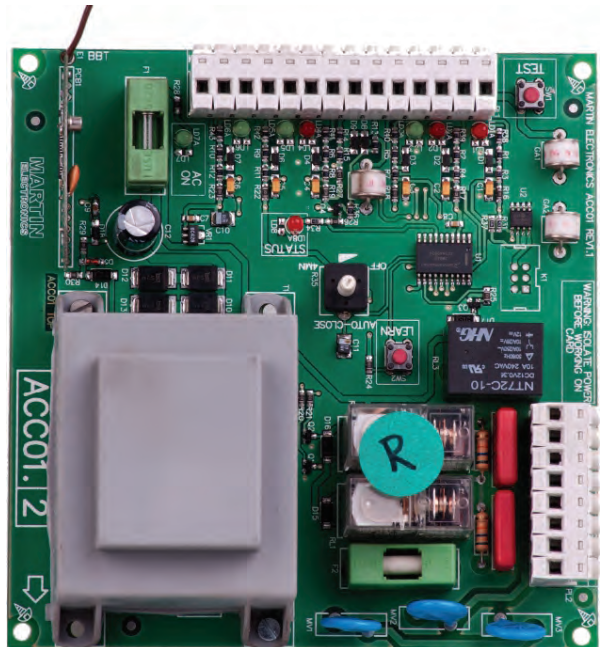
Power Source: 12 - 24V AC/DC
Maximum Range: 15 metres
Displacement at max range: 1 square metre
Wavelength: 840nm
Modulation Frequency: 800Hz
Relay Contact: Potential Free 1 AMP C/O
Physical Size: 90 x 45 x 29mm
Housing: Impact resistant polycarbonate.

ACC01 - Universal AC Controller

The **SENTRY™ ACC01** is a general-purpose or "universal" AC Motor Control Card for general applications where it is necessary to control a single-phase AC motor within defined limits.

APPLICATIONS:

- Swing Arm Gates (typically in-ground type units)
- Hydraulic Actuator Swing Gates (FAAC, etc...)
- AC Sliding Gate Motors
- Shutter Door Actuator Systems
- Curtain Actuation Systems
- AC Garage Door Actuator Systems



ME-ACC01

TECHNICAL DATA

Operating Voltage: 200 - 250V AC 50/60Hz

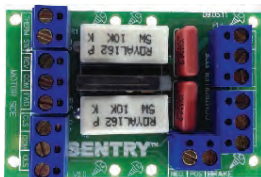
Motor Rating: 650W max.

Auxiliary Power Out: 12 ~ 14V DC,
maximum load = 1A

Lamp Relay Contact: 5A at 220VAC
(500 watt tungsten load max.)
(250 watt metal halide lamp wattage max.)

Onboard Receiver: 433.92MHz code-hopping
(16x Sentry code hopping TX)

Size: 138 x 135 x 55mm



**Optional adaptor board
for Roll up version**

ME-ADB01



DC Controller Card

The **SENTRY 12/24V motor controller** is a compact controller board that has been designed for operation in harsh environments and long-term reliability, including strong surge protection.

For motor operation, a 12/24V battery configuration must be connected. Support for up to a 15A continues load is more than enough to power some larger industrial DC motors, while smaller motors will perform just as well. A 1A fused auxiliary output from the battery supply is also provided should one want to supply low current external equipment such as external remote control receivers, infrared-beams, a GSM system for operating the controller, etc.

FEATURES:

Main Features:

- Bi-directional motor control
- Onboard battery charger
- Onboard code-hopping remote
- Control receiver (16 memory slots)
- Auto-close feature
- Onboard test/trigger button
- Adjustable motor current cut-off limit
- Signal input protection
- Surge protection
- Removable connectors for easy installation

Power inputs/outputs:

- 16/30V AC max. power input
- 1A fused auxiliary output from battery
- Courtesy Light relay (N.O.)
- Battery input
- 15A fused motor output
- EARTH cable for surge protection

Signal inputs:

- External trigger
- External pedestrian
- Infrared beam
- External light relay trigger
- Open limit
- Closed limit

Signal outputs:

- Status LED



Model:DCC212 SENTRY 12V motor controller
DCC214 SENTRY 24V motor controller

SPECIFICATIONS:

Input Voltage: 12V-16V AC (DCC212)
24V-30V AC (DCC224)

Minimum Input Current: 1.5A

Operating Temperature: -15°C to +50°C

Battery Charger Output Rating: 13.8V @ +/- 700mA (DCC212)
27.6V @ +/- 700mA (DCC224)

Continues Motor Output Current: 15A

Auxiliary Output Voltage: same as battery voltage

Continues Auxiliary Output Current: 1A

Courtesy Light Relay perimeters: normally Open(N.O) contact
250V AC @ 10A max.

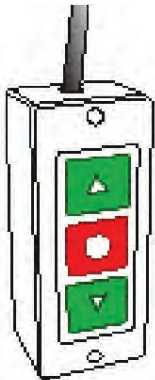
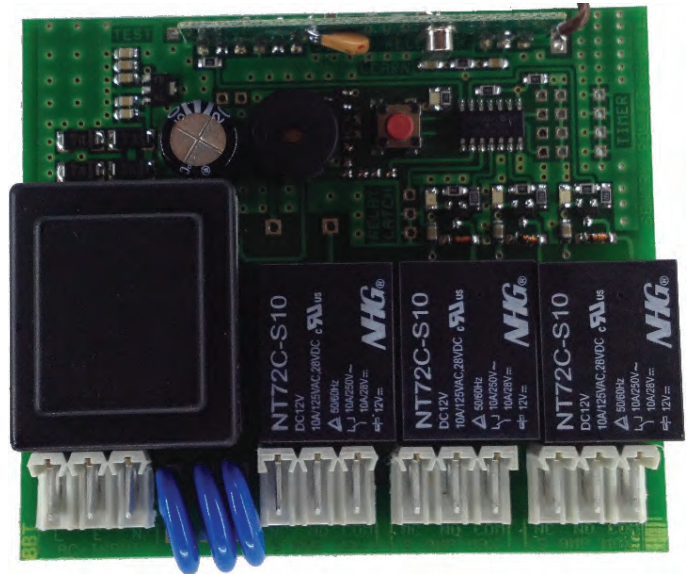
Signal Inputs: active low/short to ground to trigger

Status LED Output: 5V @ 50mA max.

Motor Current Cut-off Limit: 2A-15A adjustable

3 Channel Industrial Roller Door Receiver

The **Sentry Roll-up Receiver** is used in conjunction with the industrial type roll-up motors. It is connected in the place of the standard wall mount control unit. Th unit provides 3 outputs for Up, Stop and Down control. The onboard buzzer indicates, when a button is pressed.



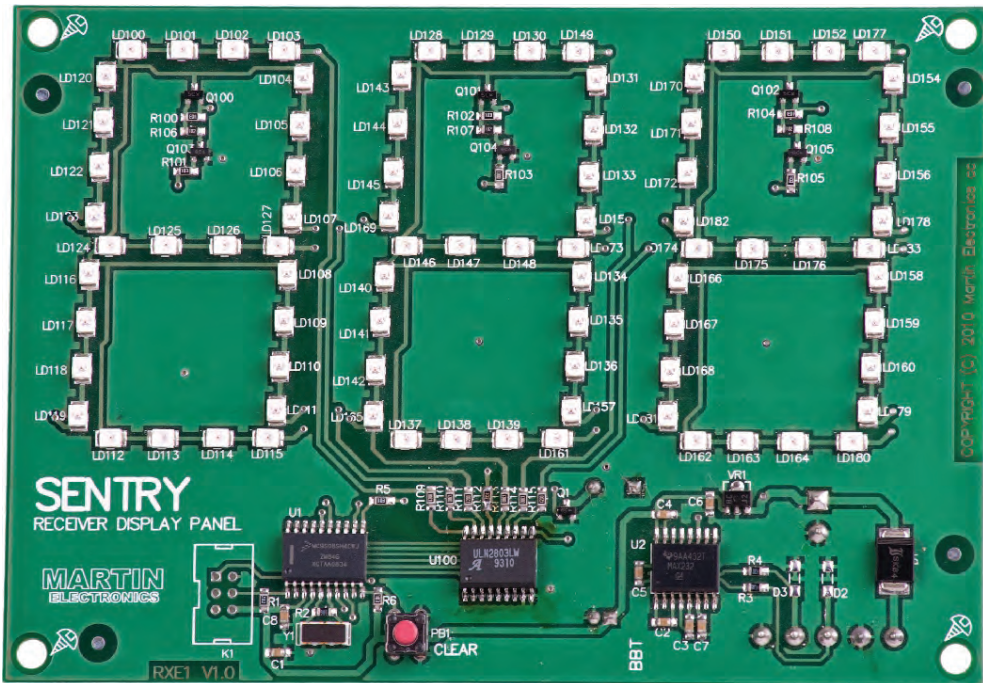
**REPLACE FIXED
WALL MOUNTED
BUTTONS**

SPECIFICATIONS:

Transmission Frequency:	433.92MHz
Modulation Format:	ASK
Protocol:	Code Hopping
Power Source:	16V AC or DC/ 200 - 250V AC 50 - 60Hz 1.5VA
Relay Contacts:	5A @ 240V AC
Dimensions:	90mm x 87mm x 31mm
Mass:	< 373g
Operating Temp Range:	-30°C to +55°C

Mimic Panel

The **SENTRY™ RXE1** is a large format LED display that extends the capabilities of the **SENTRY™** 1000 channel and Pendant receiver products to allow for easy visibility in a multitude of applications.




SPECIFICATIONS:

- Power Supply:** 9 - 14 volts DC
- Current Consumption:** idle (no display): 30mA
- All digits ("000"):** 136mA
- Serial Data Input:** 1200bps 8N1 RS232C level
- Physical Dimensions:** 150mm x 105mm
- Frontal Height:** +/- 6mm (excluding push button lever)
- Rear Clearance:** +/- 22.5mm

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