

MATSEC™ LONGRANGERF

AUTONOMOUS ALARM TRANSMITTER



The MATSEC™ was developed following strong demand from customers, looking for a way to transmit alarm signals from locations where AC power is unavailable or non-reliable.

MATSEC™ incorporates a long-range RF alarm transmitter, operating on a licensed VHF frequency, and a long-lasting battery pack that provides many years of autonomous operation. The electronics, battery, and antenna are all housed in a weatherproof plastic housing, providing a compact, robust and very reliable unit.

In an event of an alarm on any of the four inputs of the MATSEC™, an alarm signal is transmitted wirelessly and received within a split of a second at the alarm monitoring center, allowing for instant response.

Battery Powered

Long-Range RF link

Compact and reliable

4 Inputs

Applications

Military Bases

Telephone Distribution Boxes

Perimeter Security

Camp Security

Parking lot panic buttons

Mine panic buttons

Prison and Security Guards

Hospitals

ATM & Vending machines

Vacant properties

Sewage and water level sensors



Specifications

GENERAL

Power Supply	12 Volt, 8 Cell AA Battery Pack
Operating Temperature	-30°C to 60°C (-22°F to 140°F)
Storage Temperature	-40°C to 70°C (-40°F to 158°F)

RF TRANSMITTER

Frequency	VHF: 136-174 MHz &
Modulation	FM, FSK
Power Output	VHF: 5W
Frequency Stability	±5 ppm at -30°C to 60°C (-22°F to 140°F)
Deviation	±5 KHz max ±2.0 for 12.5 KHz bands ±3.3 for 25 KHz bands
Output Impedance	50Ω

PROTOCOLS

Encoding	32 bit words in LARS and LARS I protocol with BCH and PARITY. 64 bit words in LARS II protocol.
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PHYSICAL DIMENSIONS

Weight	0.6 kg (1.3lbs)
Size	213 x 68.5 x 86mm (8.4" x 2.7" x 3.4")

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