

MDT-122

Man-Down Transmitter

1. Description

MDT-122 is an automatic personal security transmitter. This micro-processor controlled transmitter is designed for use by guards in a prison, by security officers in an organization or institution, or by employees in a large industrial complex (as an industrial signaling device for safety). In areas that 1 person is not allowed to work alone, MDT-122 can be an excellent solution.

The MDT-122 alarm signal can be received by a compatible receiver, like MCR-308, and can be integrated in any alarm system.

MDT-122 is attached to the guard's pouch / holster.

The transmitter is activated in the following events (see fig. 2):

A. PANIC

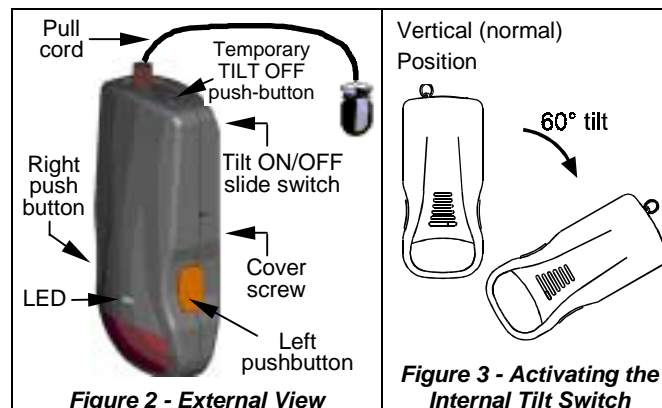
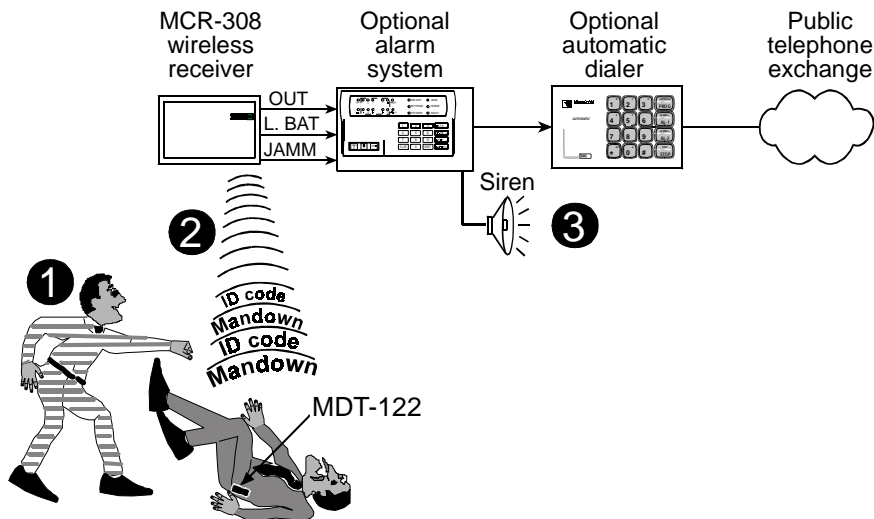
When the guard needs help, he presses both buttons (pressing both buttons is required to prevent an accidental panic message transmission).

B. MANDOWN

When the guard falls down (automatic transmission when the unit is tilted down by more than 60°).

C. PULL-CORD

The pull-cord is attached strongly by a clip to the guard's belt on one side and is plugged into the transmitter by an easily detachable plastic pin on the other side. Pulling the cord or the unit away causes the plastic pin to be detached and to release an internal switch that activates an alarm transmission. This may happen when an attacker tries to draw the unit away from the guard or by the holder, in case of emergency and difficulty to press the twin buttons for alarm.



2. Specifications

Transmission type: Radio Frequency (RF)

RF frequency (MHz): 433.92

Transmitter's ID code: 28-bit ID, Code Secure™

Modulation type: pulse width modulation

Overall message length: 66 bit

Alarm messages: Tilt activated, pull-cord disconnected, Panic alarm, each with separate ID

Power source: 3.6 V, Lithium battery, size 1/2 AA / 1.2 Ah, (Tadiran TL-2150 or equivalent.)

Current consumption: 15µA standby, 10mA (operation)

Battery life expectancy: Up to 3 years (with regular use)

Battery supervision: Battery test every hour

Operating temperature: 0°C to 49°C (32°F to 120°F)

Dimensions (H x W x D): 120 x 52 x 36 mm (4-3/4 x 2-1/16 x 1-5/16 in.)

With Holster-3: 140 x 77 x 50 mm (5-7/16 x 3-1/16 x 1-15/16 in.)

Housing: 3mm ABS plastic box, weather proof

Weight: Man-down -138 g (4.9 Oz.), Holster-3 - 30 g (1.05 Oz.)

Color: Body - dark gray, buttons - brown, pull cord - black

Compliance with Std.: FCC Part 15

Accessories: Light weight water-resistant carry pouch Holster-3.

Metal belt clip.

Pull-cord with pin and cloth clip.

3. Internal antenna description

A piece of wire AWG 24, 15 cm long inside the casing is used as an antenna.