MD10 is a modification of the Inovonics EE1236D, designed for use with EchoStream serial receivers/network co-ordinators.

Alone, the EE1236D is a 3-condition pendant alarm button. With the MD10 modifications, the device becomes capable of automatically sending an alarm signal without any user input upon detecting a man-down condition (device tilt > 60° from upright). This document explains how to configure the additional features that are added to the base product.

The detection time & warning time are both configurable on the product PCB. A piezo warning tone may also be enabled based on user preference.

For instruction on the base device features & configuring to work with your receiving equipment - please refer to the receiver documentation and the Invonics EE1236D documentation enclosed.

Button push behaviour is unchanged, as per the original EE1236D:

Left: Alarm1   **Right**: Alarm2   **Both**: Alarm3

Operation Process

There are 3 stages to the automatic man-down alarm. During stages 1 & 2, the device may be reset by simply returning it to an upright position.

1. When tilted more than 60° from upright, the detect stage begins. This is the duration that must pass before proceeding to the Alarm stage. This stage does not provide any user feedback.
2. If the device remains tilted after the detect time expires, the Alarm stage begins. The user is warned through vibration (and tone, if set) for the configured duration.
3. If the device remains tilted after the alarm time expires, the device will broadcast alarm condition 3 – equivalent to a simultaneous push of both buttons.

Configuration

The detection time, alarm time and optional tone are configured by shunt placement on the PCB:
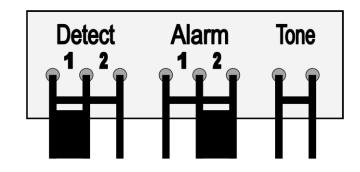

DETECT TIME

NO SHUNT
IMMEDIATE

SHUNT POS. 1
15 SECONDS

SHUNT POS. 2
30 SECONDS

Position 1 (15s) shown

ALARM TIME		
NO SHUNT	**SHUNT POS. 1**	**SHUNT POS. 2**
15 SECONDS	30 SECONDS	45 SECONDS

Position 2 (45 seconds) shown

TONE

NO SHUNT
NO SOUND OUTPUT

SHUNT PLACED
DEVICE WILL BEEP INTERMITTENTLY DURING ALARM STAGE
&
DEVICE WILL EMIT CONTINUOUS TONE WHEN ALARM SIGNAL IS BROADCAST

No shunt (No tones) shown

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