

# OPTOELECTRONICS

## RF DETECTOR

### Introduction

The Optoelectronics RF Detector detects the signal strength of a nearby transmitter from 10MHz-2GHz and displays the signal level in dBm. Calibrated at the input, the signal level is measured from -65dBm to +5dBm with a +/- 5dBm accuracy. A built-in vibrator will alert when a signal is stronger than the preset threshold level.

### Operation

#### ON/OFF

Turn the RF Detector ON by moving the slide switch on the side of the case all the way up to the top position. Turn the RF Detector OFF by moving the slide switch on the side of the case to the down position.

#### Adjusting the Signal Strength Threshold

With the front of the case facing away, notice the two signal indications. The indication on the right is the actual measured strength of the nearby signal or background RF level. The signal indication on the left is the adjustable threshold level.

Adjust the threshold UP by pressing the right ARROW button. Adjust the threshold DOWN by pressing the left MINUS button.

#### Enabling the Vibrator

With the slide switch in the UP position, press the slide switch IN. The small SPEAKER icon will be displayed on the left side of the display. Each time a measured signal is stronger than the preset threshold the vibrator will activate. Each time the vibrator is triggered it must be enabled again by pressing in the slide switch.

Disable the vibrator by pressing the slide switch in until the SPEAKER icon disappears.

*Note: While the RF Detector will operate with the slide switch in the middle position, the vibrator and threshold must be preset with the slide switch in the UP position, prior to moving the slide switch to the middle position. The vibrator can be reactivated in this position. The ARROW / MINUS button cannot be adjusted.*

#### Antenna Input and Battery

The RF Detector uses a 2.5mm jack as the antenna input. The TMC100 antenna is available as an option.

The RF Detector operates on a single 1.5v AA battery. Operation time may vary (10-50 hours) depending on how often the vibrator is used.

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