



Canary Model CAN-2700 “Keychain” Wireless Signal Detector



FEATURES

- Exceptionally low cost
- Wide frequency range 30 MHz to 6 GHz depending upon options
- Option for eight switchable frequency bands and 20 dB attenuator
- Exceptional sensitivity – far reaching detection range
- Wide range of drop in filters that may be quickly inserted providing full customization of frequency range
- No hands operation
- Integrated microcomputer option allows for ability to automatically calibrate to the environment through automatically scanning setting a baseline for each band and setting the threshold – greatly improves false alarm rate

DESCRIPTION

The **Canary** offers an exceptionally low cost solution to detect cell phones and wireless devices in a miniature unit that can fit on a keychain. The energy is measured over the selected frequency bands for detection of any wireless devices and provides a vibrator and LED alert when a signal is detected exceeding a programmed threshold. The **Canary** may be used covertly to determine the cellular format or signal type by listening to the audio signal representing a “musical song” applicable to a particular wireless transmission. This allows the ability to determine if the wireless device is GSM, CDMA, IDEN, Bluetooth, 802.11, Satellite mobile, etc.

The **Canary** may also be configured with a miniature plug-in filter customizing the frequency range to detect a signal in a specific frequency range. These are available in a wide variety of frequency ranges. An additional option provides eight selectable integrated frequency bands with up to 20 dB of attenuation for each band. The **Canary** may be also be used with an external log periodic antenna for direction finding.

An option including an integrated microcomputer provides the ability to perform automatic calibration of the sensor to the environment providing for exceptionally low false alarm rates and a high probability of detection. The calibration routine may be utilized over a long period of time ensuring that intermittent RF does not trigger a false

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alarm condition. The **Canary** may also be configured with a external wireless data link for automatic reporting.

SPECIFICATIONS

RECEIVER PARAMETERS

Frequency range.....700 MHz to 2700 MHz (30 MHz – 6 GHz optional)
Frequency bandwidth.....2 GHz
Selectivity..... Typically 60 dB out of band rejection
Sensitivity.....-80 dBm noise floor (typical)
Dynamic range.....60 dB
Audio output.....40 mw, 8 ohms, 3.5mm stereo headphone jack
Controls.....Audio volume, alarm threshold

PHYSICAL/ENVIRONMENTAL CHARACTERISTICS

Power input.....powered by internal AA battery
Power consumption.....Approximately 50 mw when active, <1 mw standby
Weight.....Approximately 1 oz
Size.....Approximately 2 3/4" X 1 3/4 " X 1/2 "
Alarms.....LED; vibrator (may be disabled)
Operating temperature range.....-20 to +55°C
Non-operating temperature range.....-40 to +70°C
Operating altitude.....0 to 12,000 ft (0 to 3657 m)
Operating humidity.....10 to 90% non-condensing (waterproof seal)

Filter sets available for Canary (Customized filters available)

Table with 2 columns: Frequency and Description. Lists various filter options such as LTE/AT&T, GSM 850, WiMAX, etc.



Canary (Top View)

OPTIONS
Opt 1 Extended frequency range 30 MHz – 6 GHz
Opt 2 Single band filter (select frequency band from list)
Opt 3 Dual filter for improved rejection (select frequency band)
Opt 4 Six pack of "drop in" filters
Opt 5 Customized Fly Away Tool Kit
Opt 6 Eight switch-selected frequency bands
Opt 7 Integrated micro computer with serial interface
NOTE: Customized filters and frequency are also available