Wireless Innovations Inc

Cellguard Model A4 Cellular Detector

FEATURES

- Detects all cell phone transmissions (LTE, WiMax, IDEN, GSM, CDMA)
- Exceptionally low false detection rate using specialized filtering – insures no false alarms from nearby cell towers
- Fully automated calibration allows for rapid installation
- Internal logging function to log all signal activity on 10 frequency bands with time stamp
- Integrated automatic reporting option to central facility using AC power
- May be configured to detect Wi-Fi and ISM transmissions, if desired

DESCRIPTION

The ***Cellguard*** cell detector provides the ability to detect any cell phone or wireless transmission in a facility with an unmatched false alarm rate. The ***Cellguard*** uses an innovative high technology design to scan and identify any cellular activity over the 700 MHz to 3 GHz frequency bands (optional 6 GHz). The unit scans 10 independent frequency bands with each having settable threshold levels allowing for calibration to a specific building environment. Specialized software is analyze the RF environment and develop time-of-day threshold statistics. Alternatively, the user may review statistics and enter overriding thresholds. This calibration routine coupled with special filters with exceptional high out of band frequency rejection insures a very low false alarm rate and rejection of signals from nearby cell towers.

The ***Cellguard*** may also be upgraded to include a wireless data link to provide alerts of a cell phone and also with 512 MB of memory to record all data over a wide period of time. This data would include a time and date of detection, signal level, and frequency band.

The ***Cellguard*** may be configured in a room or at a portal with a directional antenna to allow the detector to be placed in a location that points away from a storage area of cell phones which are "checked in" prior to entering a secure area. The installation includes calibration to insure a phone placed in this storage area that is turned on is not causing a false positive indication. Multiple units may be placed in a room or facility with new patent pending DF Power Triangulation software to accurately locate the phone within a conference room or facility.

Specifications subject to change without notice as we improve our products
For further information, contact: Wireless Innovations Inc
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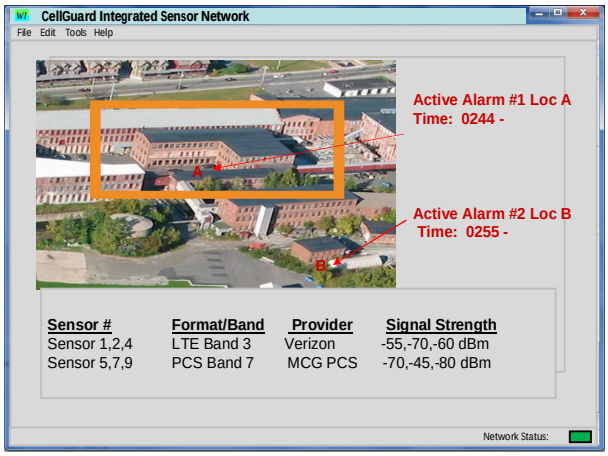

SPECIFICATIONS

Frequency range*……..…..**30** MHz to 6000 MHz*
Selectivity*……..……..……..Set by filters (>80 dB out of band rejection)*
Sensitivity*……..…..…..……..…..-100 dBm noise floor (typical)*
Dynamic range*……..……..60 dB*
Scan speed*……..……Selectable 1/2/5/10/20/50/100 channels/second max*
Antenna*……..……...……...external – selected for environment*
Input Impedance*……..……..50 ohms*
External power…….Via mini-USB connector (standard +5V USB power), uses any cell phone power supply
Weight*……..……..……approximately 12 ounces*
Size*……..……..……..……..…approximately 4.6” X 2.0”*
Connectors*……..……Mini B-USB, RS232*
Operating temperature range*……..……..……-20 to +55°C*
Non-operating temperature range*……..……..……-40 to +70°C*
Operating humidity*…….. . ……10 to 90% non-condensing (waterproof seal)*

US STANDARD FREQUENCY BANDS

Frequency	*Description*
704-716 MHz (Cell)	LTE/AT&T
776-788 MHz (Cell)	LTE/Verizon
805-815 MHz (Cell)	IDEN 800
824-849 MHz (Cell)	GSM 850
896-902 MHz (Cell)	IDEN 900
1710-1785 MHz (Cell)	GSM 1800
1850-1910 MHz (Cell)	PCS 1900
2500-2570 MHz (Cell)	WiMAX
902-928 MHz	ISM
2400-2483 MHz	Wi-Fi/Bluetooth

OPTIONS

Opt 1 Data logging with integrated 512 MB MRAM chip
Opt 2 Integrated wireless data link
Opt 3 International cellular bands
Opt 4 Extended frequency range to 6 GHz

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