SM-100

SHIELDED MONITORING SYSTEM

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The SM-100 monitoring system is designed to continuously monitor the shielding effectiveness of shielded enclosures, shielded rooms, and shielded buildings. This system will detect when a door is left open, a wire is pulled in through a WBC, a hole is drilled through the shield or the finger-stock in the door has degraded.

The SM-100 system draws heavily on the technologies used in the communication world. By reapplying existing technologies for a new application, the SM-100 greatly reduces the cost to field a system. Therefore, the SM-100 is a truly affordable on-line monitoring system.

REAL-TIME

MONITORING

The SM-100 is designed to verify shielding effectiveness without causing false alarms. Unlike typical systems that generate a carrier wave on one side of the shield and detect it on the other side of the shield, the SM-100 sends data from the inside of the shield to the outside and retransmits it back to the inside of the shield. Only after the data is verified is the signal strength of the received data package logged. Stray signals will never be detected and reported as a failure of the shield as could happen with frequency detection systems.
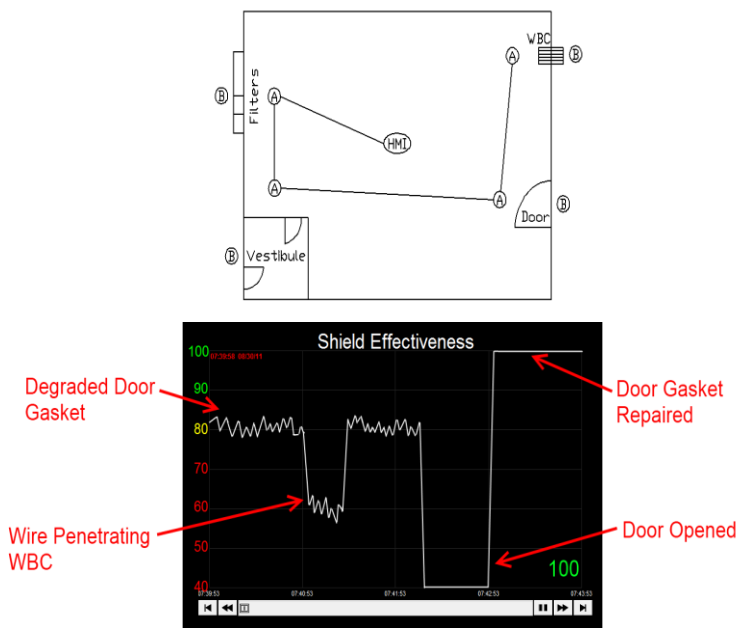
SPECIFICATIONS

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Each SM-100 system is custom designed and programmed to fit your needs. The SM-100 requires at least one module inside of the shielded enclosure and one module outside of the shielded enclosure. We recommend placing the SM-100 units near penetrations in the facilities shielding near architectural, mechanical and electrical penetrations. Our HEMP engineers can design a custom system to fit your specific facility. Contact us today.

Test Frequency	902-928MHz FHSS (Frequency Hopping Spread Spectrum)
Transmit Power	+30dBm (1 watt) * This device complies with part 15 of the FCC Rules.
Measurement range	40-100 dB with standard antennas
Sample Rate (Programmable)	2 seconds - 24 hours
Historical Data Storage	128MB flash memory (internal) Optional USB or SD Card External storage
Power Source	120-240VAC, 50/60Hz or 24VDC
Human Machine Interface (HMI)	7-inch standard touchscreen HMI, larger sizes upon request. Remote viewing capabilities.