

# Telemetry Module

## Wireless Remote Monitoring System



### OVERVIEW

The Telemetry Module is an accessory device for the DMC3000 that physically integrates into the dosimeter's case. The purpose of the Telemetry Module is to transmit a worker's radiological data (accumulated dose, dose rate and alarm status) to other WRM2 Telemetry System components (Base Station, Repeater, etc.). Although the Telemetry Module has been specifically designed as the most advanced addition to our dosimetry family (DMC3000), it features seamless communication with all existing WRM2 Telemetry receivers.

The Telemetry Module also provides access to a variety of accessory functions, including supplemental visual alarm indication in high-noise environments via supplied Bluetooth connectivity, as well as identification and location via supplied Wi-Fi

### FEATURES

- Transmits radiological information, in pre-configured intervals to WRM2 Telemetry receivers
- Low-power optimized for long life
- Optional Bluetooth link for communication to supplemental alarm accessories
- 900 MHz and 2.4 GHz Options
- Battery Type: AAA (LR03 1.5v)
- External Power: 1.5V-3.6V through battery adapter
- Battery Life: >40 hours

### OPERATING CHARACTERISTICS

- Transmit Power Output: 100mW(900Mhz), 10mW - 63 mW(2.4Ghz) locally regulated
- Receiver Sensitivity: -106 dBm (900Mhz), -100dBm(2.4Ghz)
- Frequencies :900 (902-928) MHz or 2.4 ISM Frequency range
- Over the air data stream: 19.2k bps for WRM2 900 MHz or250K bps for WRMDM2.4Ghz
- Transmission interval: 4 seconds or user configurable
- Agency Approvals: FCC (900Mhz) (USA), IC (Canada),and CE (Europe) (2.4Ghz)
- Bluetooth: 21EDR (SPP, HFP- AG) (63mW)
- Range: 1.7mi (900Mhz), 1mi (2.4Ghz)

### ELECTRICAL CHARACTERISTICS

- Internal Power: AAA Alkaline Battery(LR03)
- External Power: 1.5v - 3.6 v DC external power; 100 - 220 VAC with USA and Euro Adapter

### PHYSICAL CHARACTERISTICS

- Case: Blue ABS plastic
- LED: Red, Green, Yellow, Blue, Magenta, Cyan, and White LED's
- Antenna Connectors: Wired
- PC Communications: Micro-USB
- Controls: Accelerometer, tap.
- Ruggedness: 3 drops on each face from 1.5m.
- Operating Temp: -10C to 50C (14F to 122F)
- Relative Humidity: 10-95% Relative Humidity (without condensation)

### MECHANICAL CHARACTERISTICS

- Height: 4.8" (121mm)
- Width: 2.3" (58mm)
- Thickness: 0.98" (25mm)
- Weight: 54g without DMC 3000 and 165g with the DMC3000 and AAA Battery

