



ELECTRONIC DOSIMETRY

Telemetry Module

Wireless Remote Monitoring System

FEATURES

- Transmits radiological information, in preconfigured 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 (900 MHz)
- >30 hours (2.4 GHz)

DESCRIPTION

The Telemetry Module is an accessory device for the DMC3000™ dosimeter 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™ dosimeter), it features seamless communication with all existing WRM2™ Telemetry receivers.

Additionally, the Telemetry Module provides access to a variety of accessory functions, including supplemental visual alarm indication in high-noise environments via supplied Bluetooth connectivity.



OPERATING CHARACTERISTICS

- Transmit Power Output: 100 mW(900 Mhz), 10 mW - 63 mW (2.4 Ghz) locally regulated
- Receiver Sensitivity: -106 dBm (900 MHz), -100dBm (2.4 Ghz)
- Frequencies :900 (902-928) MHz or 2.4 ISM Frequency range
- Over the air data stream: 19.2 kbps for WRM2 900 MHz or 250 Kbps for WRMDM2.4 Ghz
- Transmission interval: 4 seconds or user configurable
- Agency Approvals: FCC (900 Mhz) (USA), IC (Canada), and CE (Europe) (2.4 Ghz)
- Bluetooth: 21EDR (SPP, HFP- AG) (63 mW)
- Range: *Up to 1.7mi (900 MHz)
Range: *Up to 500 meters (2.4 Ghz)

ELECTRICAL CHARACTERISTICS

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

MECHANICAL CHARACTERISTICS

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

PHYSICAL CHARACTERISTICS

- Case: ABS plastic
- LED: Red, Green, Yellow, Blue LED's
- Antenna Connectors: Wired
- PC Communications: Micro-USB
- 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)



*Environmental conditions, antenna type and height may affect maximum range

