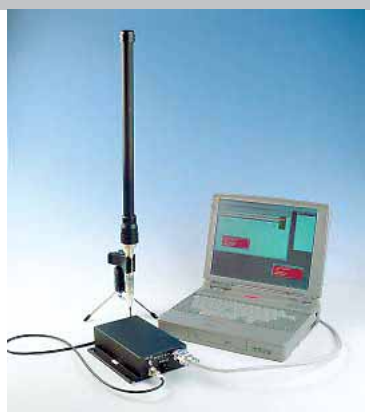
Product Specifications

The Thermo Fisher Scientific wireless telemetry system represents the next generation of wireless monitoring, which builds upon the foundation of the original Thermo Scientific system.

TeleDosimetry System™

Wireless telemetry system



- Dose and dose rate reporting
- Alarm conditions reporting
- Audible and visual local alarm via EPD
- Easily replaced, separate standard AAA alkaline battery in dosimeter transmitter
- Pocket mounting
- Uses a standard Thermo Scientific Mk 2 EPD
- Two way communication hardware allows dynamic changes to alarm set points and notification to targeted field units

Specifically designed for the new Mk 2 EPD, the major enhancements of the telemetry system is its smaller and lighter design, automatic roaming feature, as well as approx. +30%range as compared to other commercially available systems.The teleDosimetry System is a family of products that can be used individually, or integrated together in a "modular" configuration to build monitoring networks.

- Real time dosimetry control
- Compatible with other manufacturers' devices
- Integration with non-radiological data sources
- Graphical data trending
- Logging and analysis

Benefits

- Reduces exposure to achieve ALARA goals
- Saves manpower on real time control
- Reduce surveys through continuous area monitoring
- Quick, easy, lower cost deployment without the need for engineering approvals
- Extended range coverage without complex wiring

Telemetry Specifications

System and Components
The Base Station is the heart of the system, providing total area coverage for the radio data transmission network. Physically it is a low profile, environmentally ruggedized unit. Standard connections to the unit include a high performance 9dB gain antenna, RS 232 computer interface cable, and an AC power adapter. The system is a modular monitoring system that can easily integrate sources of data throughout a plant or field location and organize it into logical display and historical presentations. In this case, remote monitoring stations can be set up throughout the location via the site's IT network, allowing personnel in office environments to have access to real-time monitoring.

EPD Transmitter
The EPD Personal Transmitter for the Mk 2 EPD is the solution for personal teledosimetry. Using the proven performance and reliability of the Thermo Scientific EPD as the system's foundation, the Personal Transmitter provides a smart wireless interface in the industry's most compact and durable design.

Base Station
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Universal Transmitter
The Universal Transmitter (UTX) allows for most any digital input to be added to the telemetry system.

Repeater
The Repeater is a full duplex, spread spectrum wireless data repeater for use in the system. The Repeater can be placed at strategic points to extend or 'fill in' radio coverage in hard to monitor areas. The unit may be permanently installed (AC power with 9dB antennas), or temporarily configured using the rechargeable internal batteries and portable antennas.

The Repeater is unique in its simplicity of deployment. No special configuration, no complex wiring or antenna arrangements are needed. The unit comes complete with antenna set, antenna stands and AC power supply. The unit's indicator lights verify communications to both base and mobiles, allowing quick optimization of system deployment around buildings.

TeleDosimetry Monitoring Software
The software is required to provide real time supervision of large numbers of remote telemetry monitor devices used for radiation monitoring.

Hardware Modules

Module	Dimensions	Weight	Power	Mounting	Interfaces	Part Number
Personal Transmitter	125 x 63 x 23 mm 5" x 2.5" x 1"	120 gms 4 oz. (without EPD)	1 x AAA alkaline 10-15 hours use (depends on cfg)	Pocket	Accepts MK2 EPD	611/1/43800/00
Base Station	185 x 145 x 50 mm 7.5" x 6" x 2"	760 gms 1.75 lbs	AC Power via adaptor	Free Standing or 4 hole wall mount	RS232 serial for PC TNC antenna 9VDC inlet	611/5/43826/000 includes AC adapter; one 9dB antenna and RS232 computer cable (3 m, 9.5')
Repeater	200 x 145 x 80 mm 8 x 5.5 x 3 in.	1480 gms 3.25 lbs	Internal NiCd battery, optional operation via AC adapter	Free Standing or 4 hole wall mount	2 x TNC antenna connections 9 V dc inlet	611/5/4263/000 includes 2 x 9 dB antenna and AC adapter
9dB Antenna*	600 mm long (24")	250 gms 9 oz.	None	Use clamp or table type stand	N type coax	654/4/01102/000
*15 dB Yagi antenna also available						
Antenna stand & clamp	Base diameter 150 mm (6")	Approx. 2 kgs 4.5 lbs	-	Table top	-	617/4/08442/000

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