Electronic Personal Dosimeter





Sensitive. Simple. Safe.

The Thermo Scientific EPD TruDose Electronic Dosimeter delivers unparalleled real-time dose reading improves your employees' safety and streamlines workplace efficiency by providing ultra-precise dosage information.

For over 25 years, Thermo Scientific EPD's have set the standard for trusted radiological performance in electronic personal dosimetry. Building on that history, our next generation electronic personal dosimeter, the Thermo Scientific™ EPD TruDose™ Electronic Dosimeter, delivers the performance and reliability you have grown to trust with the modern features you expect.

Label Recess Place for color coding populations of EPDs using COTS "dots" **Ultra Bright LED LCD Display** Visible from the top and the front of the EPD 24.6 usu Sounder **Navigate Button** Infrared Interface **Beta Window** Covers the β **Select Button** detector (EPD TruDose BG unit only) **Battery Compartment Detector Marking** Indicates EPD type Front load, secured with screws in the back

Integrated Telemetry

Simplified User Experience

- Easy to read-and-react graphical display
- Configurable, redundant and proactive messaging
- Simple menu structure

Measurement Display Layout



Example Dose Display



Example Rate Display



Uncompromised Radiological Performance

- Improved dose rate range
- Unprecedented sensitivity at lower dose rates provides assurance in the accuracy of exposure
- · Improved pulsed field detection
- Multi-detector technology measuring both beta and gamma (BG version) or neutron and gamma (NG version)
- IP65 (EPD TruDose BG) and IP67 (EPD TruDose G) provides improved protection from dust and water
- Integrated electromagnetic shielding improves tolerance to electromagnetic fields

Increased User Efficiency

- Integrated Bluetooth Low Energy (BLE) requires no additional module
- Real time clock simplifies troubleshooting and event documentation
- Improved IrDA data transfer speeds enables increased throughput at checkpoints
- Added warning thresholds enable users to react before an alarm condition arises

Utilizing RadSight Access, a team of workers can be monitored and their dose tracked utilizing RadSight Live.



Accessories and Options



EPD TruDose IR Reader

 Compatible with EPD TruDose Electronic Dosimeter and EPD Mk2 Series EPD



TruDose Desktop Reader

 Compatible with EPD TruDose and EPD Mk2 Series

Telemetry

Telemetry Software

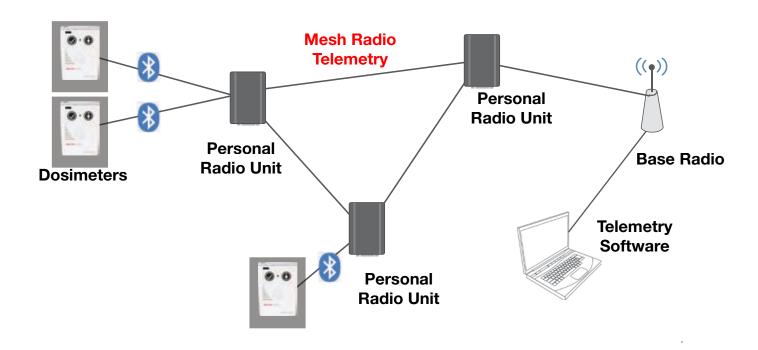


EPD Wall Rack

- Provides convenient storage for Electronic
 Personal Dosimeters (EPDs).
- Each rack holds 10 EPDs
- Racks can be stacked side-by-side to hold any number of dosimeters

Bluetooth Low Energy Telemetry

- Integrated telemetry unit requires no additional module
- Real time protection in most critical areas of facility
- Transmitters can receive data from multiple units

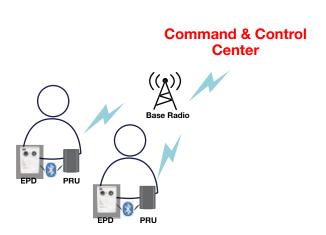


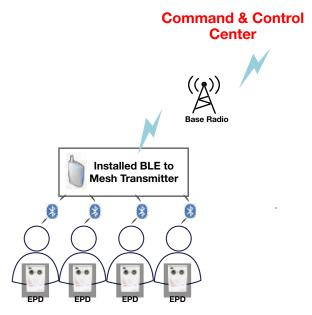
Option 1: Personal Radio Unit (PRU)

 Wear Personal Radio Unit (transmitter) on the body (pocket, belt)

Option 2: Mesh System

Install network of local area transmitters





EPD TruDose Radiological, M Detector	ieasurement, Dis	play, otorage,	Liectrical, Mechanical and L	invironmental i roperties
EPD TruDose G (Gamma)		2-PIN Silicon Diodes		
EPD TruDose BG (Beta/Gamma)		3-PIN Silicon Diodes		
EPD TruDose NG (Neutron/Gamma)		3-PIN Silicon Diodes		
Radiological		1		
Hp(10)		Hp(07)		
X, √ rays, (G, BG, NG) 16 keV to 10 MeV		X, _v rays, (G, BG) 20 keV to 10 MeV		
Neutron (NG) Thermic to 20 MeV		β rays, (BG) 200 keV to 1.5 MeV (Averaged Beta Energy)		
Display and Measurement				
Measurement Dose Display and Storage Range		0 μSv to . 10 Sv (G, BG, NG)		
Measurement Dose Rate Display and Storage Range		0 μSv /h to ≥ 10 Sv/h (G, BG) 0 μSv /h to ≥ 2 Sv/h (NG)		
Dose Profile History		Stores up to 1792 records		
Accuracy				
G/BG/NG	G/BG		BG	NG
Photon Hp(10) (Ref. ¹³⁷ Cs)	Photon Hp(0.07) (Ref. ¹³⁷ Cs)		Beta Hp(0.07) (Ref. ⁹⁰ Sr ^{a)})	Neutron Hp(10) (Ref. AmBe ^{b)c)})
±5%	G ±5% / BG ±10%		±15%	±15%
Battery				
Power supply Single		e AA battery, 1.5 V Alkaline, 1.2V NiMH or 3.6 V Lithium Thionyl Chloride		
		Alkaline: 40 days for continues operation (110 days for 8/24 h shifts) 3.6 V Lithium: 3.5 as for continues operation (9 months for 8/24 h shifts)		
Alarm				
Audible, vibration, visible alarm Audible		le at 97db(A) at 20cm (>80 dB(A) at 1m), vibration alarm function, red flashing LED		
Physical				
Weight 114 g ((4 oz.) with alkaline battery and clip		
Size 86mm		n x 63mm x 21mm (3.37 inches x 2.48 inches x 0.83 inches)		
Communications				
Desktop/IR reader USB co		connection. Compatible with EPD TruDose Electronic Dosimeter and EPD MK2 models		
Bluetooth Low En		nergy (BLE) up to 20 meters range from EPD to receiver		
Environment				
Operating temperature -20°C to		to +50°C		
Humidity 20% to		90% RH		
IP rating EPD Tr		ruDose (G, NG) meets IP-67, EPD TruDose (BG) meets IP-65		
a) Sr-90 dose response at 0° is 95%	%, b) AmBe dose res	sponse at 0° is 12	29%, c) Cf-252 dose response at 0	° is 100%

Accessories

Part number	Description		
436001001	EPD TruDose Desktop Reader (EasyEPD3 Software included)		
436001101	EPD TruDose IrDA Reader (EasyEPD3 Software included)		
43100100113	Front clip		
4360020	ER3 Reader -Wall mountable access control reader		
4360021	OEM ER3 Reader - Access control reader for integration into other systems		
43100100106	EPD TruDose lanyard		
4350002	TruDose Test Adapter, Ba-133, 370 kBq		
EPD/1/31540/000	WR-1 Wall Rack, holds 10 EPD's.		

Customize your configuration

Please contact your Sales Representative for EPD TruDose Configuration information. Factory configurable options include:

- Case Color
- Specification Label
- Approval Label

Customize your configuration

- Function: Standard Secure, 15% Gain, Telemetry + 10% gain, or custom
- Dose and dose rate alarm thresholds
- Alarm Configurations



