Thermo Scientific ER3 EPD® Reader

Access control for radiation controlled areas

Used in conjunction with the Thermo Scientific™
EPD TruDose™ and EPD Mk2+.

Features

• Infra-red optical link to EPD TruDose Electronic
Personal Dosimeter, operates automatically when an
EPD is presented to the optical port

• LCD visual display

• Local mode and network operation

• Microprocessor based

• Audible beeper

• Optional interface control port used for door or turnstile
control

• Serial interface to personnel ID card reader

• Numeric keypad to enable data such as personnel ID
or Work permit numbers to be entered

• Ethernet port for interfacing to site network

• Messages displayed in either English or Chinese

Interface Design

The Thermo Scientific ER3 EPD Reader is used in conjuction
with the Thermo Scientific electronic personal dosimeter
EPD MK2+, EPD N2, EPD TruDose (BG and G types),
and provides an interface between the EPD, user and an
access control system. The ER3 is available in two forms: a
wall mounted version and an exit reader mounted inside a
Personnel Contamination Monitor (OEM ER3).

A mountable steel enclosure houses a 5.7" TFT Display
with touch panel, a stainless steel custom keypad with
multicolored LED indicators, EPD locator and processor
electronics. The unit has RS232, RS485 and Ethernet
networking connectors available via a removable cable cover
for interfacing to a site network. Also behind this cover, relay
outputs and opto-coupled inputs provide an interface to
turnstile or other barrier equipment, and two USB interfaces
allow the connection of peripherals such as barcode
scanners or magnetic swipe readers. A bi-directional infra-
red link provides communication with the EPD inserted in
the slot to the front of the unit. If network communications
are not operational, the ER3 can hold entry/exit data for
more than 2,000 entries.

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General Specifications	
Operating temperature:	0° to +50°C
Storage temperature:	-20° to +70°C
Relative humidity:	10 to 85% at 29°C
CE compliant:	ER3
EMC standards:	EN61326-1:2013
Safety standards:	EN61010-1:2010 equipment is for indoor use only
Weight:	4 kgs
Dimensions: (WxHxD in mm)	Overall: 276 x 261 x 75
	h - including cable cover
	d - maximum from wall surface
Power supply:	100-240 VAC and 50/60 Hz
Max power:	20W
Mains Fuse:	T1A 250V, 1A TIME DELAY, 5x20mm
Software:	ER-3 connects via the network to the Dose Management and Control Software (webREMS). Can be configured locally at the ER3.

Find out more at **thermofisher.com/radiationmeasurement**

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