DBR-1

DIS Dosimeter Reader

Nuclear Power

Homeland Security & Defense

Industrial and Manufacturing

Healthcare

Labs and Education

OVERVIEW

The DBR-1 Dosimeter Reader is designed to read DIS-1, DIS-1H3 and EDIS-1 dosimeters.

The dosimeter badge is simply inserted into the reader head slot for dose read-outs. The design of the slot prevents the dosimeter from being inserted incorrectly.

Just plug the DIS-1, DIS-1H3 or EDIS-1 dosimeter into the Dosimeter Reader and in a couple of seconds the Hp(10), Hp(0.07), Hp(3) or H*(10) doses are shown on the reader display and stored in a buffer memory. The instant reading capability allows the user to control his/her dose on a daily basis and makes the monthly or quarterly change of the dosimeter unnecessary.

The control period can be indefinite (in excess of a year), because the dose readings can be transmitted via electronic method rather than physically sending the badge away for reading and recording of official doses.

KEY FEATURES

- Stand-alone use or interface to WinELD Dose Management Software
- Display of Session and Assignment doses and dose reset capability
- EIA RS-232C serial or optional 10Base-T internal Ethernet LAN interface
- Back-up batteries and internal buffer memory for securing the operation in all conditions
- Rugged construction with heavy duty keypad
- Wall mounting option
- PTB approved configuration available

Health Physics

FUNCTIONAL CHARACTERISTICS

- Display of Hp(10), Hp(0.07) ,Hp(3) and H*(10) doses
- Reset of the Session Doses
- Display of Session/Assignment Doses
- Display of Remaining Dose Capacities
- Real time clock
- Easy to check calibration with optional DBR Reader Calibration Plug
- Display and keypad controlled by the WinELD software
- Assignment/Session reset controlled by the WinELD software
- Internal buffer memory for 256 off-line dose records

MECHANICAL CHARACTERISTICS

- 2x16 character alphanumeric LCD display with LED backlight, 9.5 mm (0.37 in) digits
- Heavy duty 16-key keypad
- Power on/off by key switch
- EIA RS-232C serial port or optional 10Base-T internal Ethernet LAN adapter
- Table top mounting
- Optional wall mounting kit
- Gold plated connector for dosimeter reading
- Rugged metal case
- Size (WxHxD): 250 x 265 x 210 mm (9.84 x 10.43 x 8.27 in)
- Weight: 8.5 kg (18.7 lbs)

CONFIGURABLE OPERATIONS

- Session Dose reset in off-line mode
- Assignment or Session Dose primary display
- Hard Reset controlled by the WinELD software
- Automatic dose print-out
- Sv/rem dose unit selection
- Keypad operation (enabled/disabled)
- «On-line», «Off-line» and «Please wait» texts can be customized by the WinELD software
- US or European Date/Time formats

ENVIRONMENTAL CHARACTERISTICS

- Operating temperature: from +10°C to +40°C (50°F to 104°F)
- Storage temperature: from -10°C to +60°C (14°F to 140°F)
- Humidity: 90% RH (non condensing)

ELECTRICAL CHARACTERISTICS

- Mains voltage 100-240 VAC, 50-60 Hz, 0.2 A
- Built-in back-up battery, 3 Ah, for minimum 16 h operation
- Complies with CE standard