

GAMMA DOSIMETERS
PM1603A/PM1603B wrist

PM1604A/PM1604B for breast pocket

DESIGNED TO WORK IN EXTREME CONDITIONS

Dosimeters provide real-time environmental radiation monitoring. The instruments can be used independently or as a part of operational dosimetry system for everyday and emergency radiation control, and can be tailored to the specific needs of customers.

Dosimeters have two independent alarm thresholds within all dose equivalent rate (DER) and dose equivalent (DE) measurementranges. Audible and visual alarms alertusers when the presetthresholds have been exceeded.

All data accumulated and stored in non-volatile memory can be transmitted via infrared channel to a PC for further processing and analysis.

The instruments' hermetic, shockproof and water-resistant case and the fluorescent backlight on LCD screen allow for easy operation and precision even in the most harsh and unfavorable environments. The dosimeters are highly sensitive and can



PM1603A/PM1603B

- Measurement of the ambient DER of external gamma and X-ray radiation H*(10);
- Measurement of the ambient DE of external gamma and X-ray radiation H*(10)
- PM1604A/PM1604B
- Measurement of the personal DER of external gamma and X-ray radiation Hp(10);
- Measurement of the personal DE of external gamma and X-ray radiation Hp(10)

PM1603A/PM1603B, PM1604A/PM1604B

- Measurement of DE accumulation time
- Indication of current time in hours, minutes and seconds
- Indication of day, month and year
- Using as alarm clock, timer and stop-watch

Application

- Emergency service
- Customs and border patrol
- Radiological and isotope laboratories
- Medical professionals
- Personnel of nuclear facilities
- Civil defense
- Fire rescue and police
- Mining

Features

- Wide range of DER and DE measurements
- Stable to dose up to 300 Sv
- Non-volatile memory
- Possibility of measurement of DE accumulation time
- Two thresholds in DER and DE range
- Audio and visual alarm
- PC communication by IR interface
- LCD display, electroluminescent backlight
- Rugged hermetic case
- Lightweight and small dimensions













LOCATION

ALARM

MEASUREMENT





Innovating Radiation Detection Technologies Since 1992

GAMMA DOSIMETERS PM1603A/PM1603B wrist PM1604A/PM1604B breast pocket

SPECIFICATIONS

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Detector	Geiger-Muller tube
DER indication range	0.01 ··C·· /b / 5.5·· /b
- PM1603A/PM604A - PM1603B/PM1604B	0.01 µSv/h - 6.5 Sv/h
,	0.01 μSv/h - 13 Sv/h
DE indication range	0.01 μSv - 9.99 Sv
Range of dose accumulation time	1 - 9999 h
Accuracy of DER measurement	
Within the range 1 μ Sv/h - 5 Sv/h for PM1603A/PM1604A	±(15 + 0.02/H + 0.003 H)%
1 μ Sv/h - 10 Sv/h for PM1603B/PM1604B	±(15 + 0.02/H + 0.002 H)%
	H is the dose equivalent rate, mSv/h
Accuracy of DE measurement within the range 1 μSv- 9.99 Sv	± 15%
DER and DE threshold range	two thresholds for DER and two for DE
Energy range	
- PM1603A/PM1603B	0.048 - 3 MeV
- PM1604A/PM1604B	0.048 - 6 MeV
Energy response relative to 0.662 MeV (137Cs)	1.000/
within the energy range 0.048 3 MeV	± 30%
Alarm type	Audible
Data recording	1000 data points
Communication with PC	IRDA
Power supply	one CR 2032 battery
Additional functions	alarm clock, timer, stop watch, calendar
Calendar mode	day of the week, date, month, year
Daily variation of watch at normal conditions	± 0,5 s/day
Battery lifetime	9 months
Battery discharge warning (partial and critical)	indication on LCD
Power supply	one CR 2032 lithium battery
Operating conditions	
- temperature range	from -20°C to +70°C
- relative humidity	up to 98 % at 35° C
Case Protection Class	IP67
Dimensions	
- PM1603A/PM1603B	50 x 56 x 19 mm
- PM1604A/PM1604B with a clip	50 x 90 x 19 mm
Weight (with battery), no more	85 g

Design and specifications of the device can be changed without further notice.





PACIFIC-TEC SCIENTIFIC PTE LTD

33 Ubi Avenue 3, #06-48 Vertex, SINGAPORE 408868 Tel: (65) 6342 1530 Fax: (65) 6342 1531

Email: sales@pacific-tec.sg Website: www.pacific-tec.sg

Co. Registration No.: 200704040Z