LUDLUM

Ludlum Model 3003

SCA and detector readout

Readout instrument for external radiation detectors with a single-channel analyzer and timed counting. Base model 3003 has no internal detector.



Weight excluding detectors and clips
.9 kg [1]

Enclosure rating and conditions
IP53 [1]

Specifications

DETECTOR

External detector setups	Up to 4; GM, scintillation, proportional or neutron	[1]
Compatible external detectors	Up to 4 external GM, scintillation, proportional or neutron detectors	[1]

PERFORMANCE

Linearity	±10 %	[1]

MEASURING RANGE

Response time	User-selectable from 1 to 60 seconds, auto SLOW, auto FAST, fixed SLOW (2 2 s), fixed FAST (4 s)	[1]

ELECTRONICS & SIGNAL

Detector high voltage	300–2400 V DC	[1]
Detector bias	300 to 2400 Vdc	[1]

CONNECTIVITY & INTERFACE

Count display range	0–999 million counts; operational range depends on detector and dead time	[1]
Communication	USB; optional Bluetooth/RS-232/TTL, select one output option	[2]

POWER & BATTERY

Approximate battery life	175 h	[1]
Power supply	4 AA batteries	[1]
Battery life	Approximately 175 hours (series specification)	[1]

MECHANICAL

Dimensions (H × W × L)	16.5 × 11.4 × 21.6 cm	[1]
Weight excluding detectors and clips	0.9 kg	[1]

ENVIRONMENT & RATINGS

perating temperature	−20–+50 °C	[1]
Enclosure rating and conditions	IP53	[1]

ORDERING & ACCESSORIES

Part number	48-4289	[1]
Logging capacity (optional)	Up to 1000 data points; Lumic Data Logger Kit required	[1]

GENERAL

Analyzer	SCA with upper window	[2]

Models

Model	Part number	Internal detector	Internal detector range	Dose response condition
3003i	48-4326 [1]	Energy compensated GM [1]	1 µSv/h to 50 mSv/h (0.1 mR/hr to 5 R/hr) [1]	–
3003i/1	48-4378 [1]	CsI scintillator, 18 x 18 mm [1]	Background to 500 µSv/h (50 mR/hr) [1]	Nonlinear energy response; dose and exposure readings may be over- or under-reported [1]
3003i/3	48-4411 [1]	Energy compensated GM [1]	1 µSv/h to 250 mSv/h (0.1 mR/hr to 25 R/hr) [1]	–
3003i/4	48-4326-4 [1]	Energy compensated GM [1]	10 µSv/h to 500 mSv/h (1 mR/hr to 50 R/hr) [1]	–
3003i/6	48-4326-6 [1]	Energy compensated GM [1]	40 µSv/h to 10 Sv/h (4 mR/hr to 1000 R/hr) [1]	–

Sources

[1] **Model 3003 Series Multi-Detector Survey Meter with Optional Internal Detector**
Ludlum Measurements · datasheet · p. 1, Configurations table; p. 2, Specifications (COMPATIBLE DETECTORS); p. 2, Specifications · checked 2026-10-16
https://ludlums.com/images/data_sheets/M3003-Series.pdf

[2] **Model 3003 Series Multi-Detector Survey Meter**
Ludlum Measurements · product-page · Introduction; Features; Options tab (Data Output Options) · checked 2026-10-16
https://ludlums.com/products/all-products/product/model-3003

Every value is taken from the manufacturer's own document; the number after the value refers to the source list. Always check against the latest datasheet before ordering.

The data comes from the manufacturer's published documents. Manufacturers may change specifications; the current configuration and performance are confirmed in the quotation.