

The Model 177 is a rugged benchtop ratemeter with alarming capability. They are very popular for frisking operations at stations where line power is available but can also be used in portable applications for up to 50 hours using the internal rechargeable battery.

The 177 supports GM and scintillation type detectors and displays the results on a linear readout analog meter. The audio alarm is adjustable from 0 through 150% of full scale, and is factory set to latching. Reconfiguration to non-latching can be accommodated via a minor internal change.

Front-panel controls include a 4-position rotary switch for selecting each detector decade, an alarm set control, an audio volume adjust, fast/slow response switch, power on/off switch and push buttons for count reset, battery test, high-voltage test and alarm test. The back panel contains the power cord connection and a 9-pin type "D" plug, power output, alarm output, pulse output, and a recorder output.

Specifications: Multi-purpose radiation monitoring, surveying; frisking Compatible Detectors: GM, scintillation Linearity: Within 5% of full scale Meter Dial: 0-500 cpm, 0-1.5 kV, BAT TEST Meter: 6.4 x 6.4 cm (2.5 x 2.5 in) 1 mA, DC movement Multipliers: x1, x10, x100, x1k Response: Toggle switch control selects FAST (2.2 sec) or SLOW (22 sec) response, for 90% of full scale reading Alarm Set: Front-panel locking control allowing alarm to be set at any point on the meter (can be read on meter) Reset: Push-button to zero meter and/or reset alarm Calibration Controls: Accessible from back of instrument	
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Calibration Controls: Accessible from back of instrument	
(protective cover provided)	
Alarm: Indicated by red lamp and audible tone	
(greater than 60 dB at 61 cm (2 ft)	
High Voltage: Adjustable from 400 to 1500 volts	
Input Sensitivity: Adjustable from -10 to -100 mV	
Audio: Built-in unimorph speaker, with volume control, to	
provide click-per-event audio or audible alarm indicator	
Data Out: 9-pin series "D" connector allowing for external connections	
of the following items: battery, unregulated supply, instrumen	t
common ground, alarm signal (current sink), pulse out, extern	nal
background subtract, and recorder output.	
Recorder Output: Correlated to meter reading	
(adjustable to 0 to 1.25 volt at 1 mA)	
Power: 95-250 Vac and 6-volt sealed lead-acid rechargeable battery (built-i	n)
Battery Life: Typically 50 hours in non-alarm condition	
(battery condition can be checked on meter)	
Battery Charger: Battery is continuously trickle-charged when instrumen	nt is
connected to line power and turned on	10
connected to fine power and turned of	

5" H x 8" W x 6" L Size: Weight: 4.2 lb

051-177 Model 177 Alarm Ratemeter Probe not included

Select Probe from page 111

Model 177 Alarm Ratemeter Model 177 Alarm Ratemeter with Pancake GM Probe and Foot Monitor



- Monitors Alpha, Beta, and Gamma radiation
- Audible alarm with red indicator light for continuous area monitoring
- Portable surveying with Pancake GM Probe (cable included)
- 0-500K cpm range
- Operates on wall current or rechargeable battery
 - Equipped for simultaneous hand and shoe contamination monitoring
- Includes:
 - Model 177 Alarm Rate Meter (051-177)
 - Model 44-9 Pancake GM Probe (051-449)
 - Model 44-26 Pancake GM Foot Frisker
 - Tee Connector
 - 39" Cable (2)

Model 177 (051-177) specs are listed to the left of this page

Model 44-9 (051-449) specs are listed on page 131

Model 44-26 Pancake GM Foot Frisker Specifications:

Indicted Use:	alpha, beta, gamma foot monitor
Detector Type:	3 pancake-type, halogen quenched GMs
Window:	$1.7 + 0.3 \text{ mg/cm}^2 \text{ mica}$
Window Area:	Active 46 cm ² , Open 27 cm ² ¹⁴ C-5%, ⁹⁰ Sr/ ⁹⁰ Y-22%, ⁹⁹ Tc-19%, ³² P-32%, ²³⁹ PU-15%
Efficiency:	¹⁴ C-5%, ⁹⁰ Sr/ ⁹⁰ Y-22%, ⁹⁹ Tc-19%, ³² P-32%, ²³⁹ PU-15%
(4pi geometry)	
Energy Response:	Energy dependent
Sensitivity:	9900 cpm/mR/hr
Background:	180 cpm
Operating Voltage:	900V
Construction:	Aluminum housing
Dimensions:	10.8"Hx7"Wx 9"L
Weight:	4.4 lb
Cable:	60"
Connectors:	Type "C"
	("T ^{**} connector included for simultaneous use with Pancake Probe)

051-027 Alarm Ratemeter Includes: Model's 177, 44-9, 44-26, Tee Connector and Cable

Call Pinestar toll-free 1-800-682-2226, to place an order