



Environmental  
Instruments  
Canada Inc.

## CT007-P

### Pancake Surface Contamination Probe



#### Introduction

The CT007-P is a small radiation detector which can detect Alpha, Beta, Gamma, and X-Ray radiations. The CT007-P is a contamination meter, based on a LND 7312 pancake GM tube. The response of the CT007-P to various sources was compared to our Ludlum 44-9. The 44-9 uses the LND 7311 tube, which is the same as the 7312, except the former runs on 900V and the latter on 500V. The pancake probe is used to detect any radiation leak or contamination, when more sensitivity is required than the general geiger counters like CT007-S can provide. It can be used as a stand alone survey meter, with a simple one button interface, and an OLED display to show data. It can also connect to GammaGuard using Bluetooth Low Energy, and work as a tethered device, sending data to a smartphone application.

#### Available Options

##### CT007-S

Geiger Survey

##### CT007-EC

Compensated Geiger Survey

##### AM003

External Interface to 1.25" × 1.75" NaI (TI)  
Detector

#### Specifications

##### INDICATED USE

Measure alpha/beta radioactive material

##### ACCESSORIES

Telescoping handle

##### WINDOW

2.0 mg/cm<sup>2</sup> mica

##### WINDOW AREA

Active – 15.51 cm<sup>2</sup> (2.4 in<sup>2</sup>)

##### EFFICIENCY (4π)

5% for <sup>14</sup>C; 22% for <sup>90</sup>Sr/<sup>90</sup>Y; 19% for <sup>99</sup>Tc;  
32% for <sup>32</sup>P; 15% for <sup>239</sup>Pu

##### GAMMA SENSITIVITY

[Co-60] 348 CPM/μSv/h

##### WIRELESS COMMUNICATION

Bluetooth Low Energy connecting to  
GammaGuard

##### DEAD TIME

Typically 80 microseconds

##### BACKGROUND

~40 CPM

##### OPERATION VOLTAGE

3V (2 AA batteries)

##### SIZE

5 × 10.5 × 3.5 cm (2 × 4.1 × 1.4 in.)

##### WEIGHT

200 gm (including batteries)

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