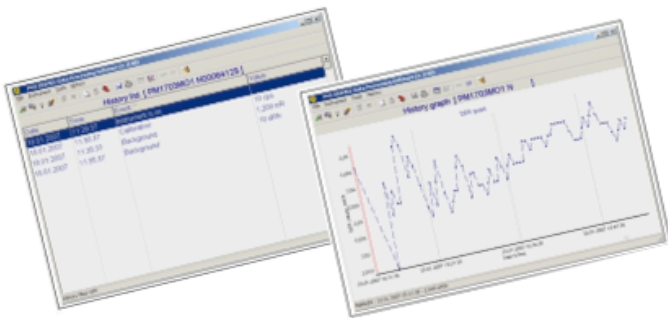


World's Smallest Dual-Detector Design

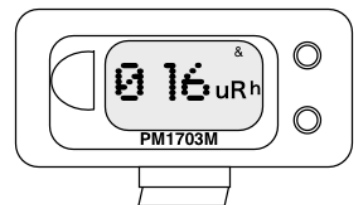


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Model 1703MO PRD/Dosimeter



BNC | model **1703MO**



Highly Sensitive Detector - Accurate Dosimeter

- Exposure Rate or Easy-Mode 1-9 Available
- Network -Ready Data Feeds
- Rugged and Watertight
- User-Friendly Configuration Software Included

BNC models 1703MO

The Model 1703MO is the world's smallest dual-detector design that meets ANSI standards 42.32 and 42.33 Type I for both dosimeters and personal radiation detectors (PRD). Rugged, water resistant, and reliable, the detector and electronics have been developed to meet IEC 61526 standards for radiation protection survey instruments, IP65 standard for weather-resistant enclosure, and ANSI N42.42 for accurate collection and storage of critical information.

As an interdiction device, this sensitive scintillator will detect small traces of radiation in pedestrians, parcels, cargo or vehicles. Vehicle mounted devices will detect radiation from an adjacent vehicle or as pedestrians are passing. The alarm modes give end users the option of loud audible and visual alarms, silent vibration alarms, or both. As a dosimeter, the Model 1703MO gives the responder an accurate accumulated dose history, with alternate alarm settings and thresholds. This allows the first responder to gauge issues like reaching a present maximum total dose, or number of minutes to continue working during a radioactive event.

In the event of a widespread radiological emergency, first response teams can monitor a perimeter in real time, using the accurate dosimeter and its data exporting options. By feeding radiation levels back to a command center, the mitigation efforts can be appropriately balanced with worker safety.

The Model 1703MO is equipped with several optional data transmitters to allow fixed-point or wireless communications to a live monitoring network. Command center software with building/perimeter mapping or GPS modules is available. Contact the factory for details.

Our power conserving design gives users over 1000 hours of use on a single AA battery. The two-button interface is consistent with our family of radiation detection pagers and reduces end user training requirements. Ease of use, sensitivity, high upper limits and durability under harsh environmental conditions make the Model 1703MO essential for those who work in emergency services, hazardous materials, counter-terrorism, border patrol, law enforcement, military, or medical and industrial applications.

Rugged, water resistant, and reliable, the detector and electronics have been developed to meet IEC 61526 standards for radiation protection survey instruments, IP65 standard for weather-resistant enclosure, and ANSI N42.42 for accurate collection and storage of critical information.

SPECIFICATIONS:

| | |
|---|--|
| Detectors | CsI (TI) scintillator, Geiger-Muller tube |
| Sensitivity (for Am-241) | 0.7 cps/(mR/h) (70 cps/(μ Sv/h)) |
| Sensitivity (for Cs-137) | 1 cps/(mR/h) (100 cps/(μ Sv/h)) |
| Energy Range | 0.033 – 3.0 MeV |
| DER indication Range | 1 μ R/h – 1000 μ R/h (0,01 μ Sv/h - 9999 μ Sv/h) |
| DER measurement Range | 10 μ R/h–1000 μ R/h (0,1 μ Sv/h - 9999 μ Sv/h) |
| Maximum permissible intrinsic relative error of DER measurement | \pm 30 % |
| Response time | 0.25 s |
| Rate of false alarms in the mode of gamma radiation registration at the radiation background 20 μ R/h | mean time to false alarm > 12 h |
| Battery Lifetime | up to 1,000 hours |
| Alarm options | Audible tone, vibration, or visual |
| PC Communications | IR interface, download data or upload device settings |
| Data Collection | 1,000 data points |
| Environmental: | |
| Temperature range | -22 to +122 °F (-30 to +50 °C) |
| Humidity | up to 95% at +95 °F (+35 °C) |
| Power Requirements | 1.5V, AA battery or optional vehicle charger |
| Water Tightness | IP65 |
| Drop Test | 30" onto concrete surface |
| Dimensions | 2" x 1" x 3" |
| Weight, including battery | 7.05 oz. (200 g) |