



RP-11

Nai(Tl) 2"x2" Detector, coupled to PMT

The RP-11 is a scintillation probe for detection of gamma radiation. The RP-11 contains a highly efficient, hermetically sealed, NaI(Tl) scintillator, 2" diameter and 2" thick, coupled to a 2" photomultiplier tube. This is encased in a rugged, splash proof housing for protection against shock, vibration and humidity.

The probe also contains a high voltage power supply, single channel analyzer (SCA), pulse shaper, GM saturation indicator, detector identifier and malfunction detection circuitry. This configuration minimizes noise, improving sensitivity and stability. The RP-11 is compatible to the RAM R-200 with two, user selectable, communication protocols. or stand alone applications for a very sensitive area monitor for detection using RS-232/RS-485, TCP/IP, or wireless radios for data transfer.

Technical Specifications

- **Radiation Detected:**
Gamma above 50 keV
- **Scintillator:**
NaI(Tl) 2" diameter, 2" thick. Window of 1 mm. (0.04") aluminum
- **Energy Calibration:**
Optional factory calibrated single channel analyzer (SCA) within the energy range
- **Count Rate Range:**
0 - 50,000cps
- **Output Signals:**
TTL pulses. Detector status: ID, OK, malfunction, overflow
- **Temperature Range:**
Operation: 15°F - 122°F (-10°C to +50°C)
- **Storage:**
-5°F - 140°F (-20°C to +60°C)
- **Humidity Range:**
40% to 95% RH (non condensing)
- **Dimensions:**
340mm (13.4") length, 70mm (2.75") width
- **Weight:**
1.75kg (3.9lbs)
- **Casing:**
Aluminum, splash proof
- **Communication:**
RS-232 or RS-485 (user selectable)



*RP-11 Detector
shown with
RAM-R-200*