

WebiSmarts System

ROTEM RadMon Stack Detector PM11 Highly Sensitive PCAT: P5451GN

Radiation Detection Division

The PM-11 Detector is a highly sensitive radiation detector used to measure concentration in Bq/m³ or uCi/ml and Released Activity in Bq and Ci, in exhaust stacks where radioactive effluent is released.

The PM-11, like all the WebiSmarts detector contains its calibration factor and identifying features, which makes it easy to install and switch with other detectors without any additional setup or preparation.

Application

The PM-11 NaI(Tl) Detector is a highly sensitive low range gamma radiation detector used to measure effluent in exhaust stack just before it's released into the atmosphere.

Measuring Range: 0 to 50,000 cps

Features

- Internal calibration factor
- Unique "electronic" identifier
- Quick Connect connector

Related Products

GM-41 Detector
P5451GF



GM-42 Detector
P5451GP



Neutron Detector
P5451GM



Stack Flow Meter
P5451GQ



Technical Data

Stack Detector PM11 Highly Sensitive

Includes:

PM-11 Detector

Weather Proof Bracket

Cable Assy DPU-3 to Detector 70m (230ft)



Radiation Detected

Gamma above 50 keV

Detector

NaI(Tl) 2" X 2"

Energy Calibration

Optional factory calibrated single channel analyzer (SCA) within the energy range

Count Rate Range

0 to 50,000 CPS

Sensitivity (Cs-137)

20,000 cps/mR/h

Output Signals

TTL Pulses

Temperature Range

Operation: -10°C to +50°C (15°F to 122°F)

Storage: -20°C to +60°C (-5°F to 140°F)

Humidity Range

40% to 95% RH (non condensing)

Dimensions

340mm (13.4") length, 70 mm (2.75") diameter

Weight

1.75kg (3.9 lbs)

Casing

Aluminum, splash proof

Sensitivity

Radionuclide	Sensitivity (cpm/Bq/cm ²)	MDL (Bq/cm ²)
F-18	350	10 (511 keV Window)
I-131	320	12 (Open Window)
Tc-99m	315	12 (Open Window)
Cr-51	27	140 (Open Window)
Cs-137	300	1.2 (Open Window)

* Minimum detectable level calculations are based on background reading of 600 cpm.

ROTEM INDUSTRIES reserves the right to change specifications without advance notice