



RADIATION DETECTION

# Coincidence Stack Exhaust Monitoring

Part of the WebiSmarts System

## DESCRIPTION

The PM-11 Coincidence System comprises of a combination of two detectors operating in unison to confirm any release of radioactive material. Automating the process to confirm only true releases of radioactive material are reported!

The system has been developed to be used in all new WebiSmarts installations as well as a retrofit option to existing MediSmarts owners.

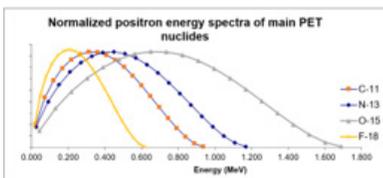
Our standard PM-11M detector is enhanced with a plastic beta detector capable of detecting the presence of positrons/beta emissions from the exhaust stack thus providing a trigger (Yes/No) to the WebiSmarts Software.



The user will continue to see the historical graph of the PM-11 readings but only the emissions confirmed by the plastic detector will be highlighted as releases. The point on the map and the Emissions Report will display the sum of these highlighted releases.

The Emissions Report will display both the graph with its highlighted areas and a table of the emissions. The report can be edited by users with a suitable access level.

The beta detector provides a unique capability of not only marking local releases but also identifying live time the primary isotopes released for PET therapy production (currently for any single isotope being released). We have introduced five end-point energy windows into the beta detector to differentiate between the different isotopes.



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The PM-11 Coincidence Exhaust Stack is made up of the following:



**PM-11 Detector**  
BAK-1510



**Beta Detector**  
BAK-0177



**Stainless Steel Bracket**  
BAK-1573



**Beta Det. Cable**  
BAK-0901  
**PM-11 Det. Cable**  
BAK-0720



**Coincidence Conn. Box**  
BAK-1564



**Cable to Conn. Unit**  
BAK-0790



**Connection Unit**  
BAK-1000



**Communications Cable**  
BAK-0198



**Monitoring Ch. Connection Unit**  
BAK-2401

The Coincidence Exhaust Stack System is designed to be installed on existing MediSmarts Systems as an upgrade and will be included into the WebiSmarts System as the standard Effluent Detector.

We offer the following configurations:

Part Numbers	Description
BAK-0173	WebiSmarts PM-11 Coincidence Detector Retrofit 5 m
BAK-0174	WebiSmarts PM-11 Coincidence Detector Retrofit 30 m
BAK-0175	WebiSmarts PM-11 Coincidence Detector New 5 m
BAK-0176	WebiSmarts PM-11 Coincidence Detector New 30 m



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