ROTEM

Coincidence Exhaust Stack Monitoring

Two-detector coincidence system for very low emissions in the exhaust stack

The PM-11 coincidence system combines two detectors working in unison to detect very low emissions that occur only inside the exhaust stack, with online isotope identification. The standard PM-11M detector is complemented by a plastic detector that senses positrons within the stack and gives WebiSmarts a trigger signal.



Detector

PM-11M gamma detector (NaI(Tl), 2 × 2 in), beta detector (plastic scintillator for positron identification) and GM-42 high-range GM detector; plus a flow meter [2]

Specifications

Functions	Two detectors in coincidence register only emissions inside the exhaust stack, with online isotope identification; PM-11M is complemented by a plastic detector for positrons	[1]
Detector	PM-11M gamma detector (NaI(Tl), 2 × 2 in), beta detector (plastic scintillator for positron identification) and GM-42 high-range GM detector; plus a flow meter	[2]

Sources

[1] **Coincidence Exhaust Stack Monitoring**
Rotem Industries · product-page · Product page · checked 2026-10-16
https://rotem-radiation.co.il/solution/pm-11-coincidence-exhaust-stack/

[2] **WebiSmarts Coincidence Stack Monitoring Channel – datasheet**
Rotem Industries · datasheet · p. 1, detectors A–D · checked 2026-10-16
https://rotem-radiation.co.il/wp-content/uploads/2026/02/WebiSmarts-Coincidence-Stack-Monitoring-Channel-180...

Every value is taken from the manufacturer's own document; the number after the value refers to the source list. Always check against the latest datasheet before ordering.

The data comes from the manufacturer's published documents. Manufacturers may change specifications; the current configuration and performance are confirmed in the quotation.