ELSE NUCLEAR

MISTRAL XM

Air activity monitor

A system for sampling and measuring gamma activity in air, including activation products.



Standard detector	Energy range	Main system weight
2 × 2 inch NaI(Tl) with MCA [1]	**30 keV–2 MeV** [2]	**Less than 750 kg** [2]

Specifications

DETECTOR		
Standard detector	2 × 2 inch NaI(Tl) with MCA	[1]
Sample geometry	3 L Marinelli	[1]
MEASURING RANGE		
Energy range	30 keV–2 MeV	[2]
ELECTRONICS & SIGNAL		
Relay outputs	2 NC/NO: operating status and alarm	[2]
MECHANICAL		
Main system dimensions (W × H × D)	100 × 120 × 60 cm	[2]
Main system weight	Less than 750 kg	[2]
ENVIRONMENT & RATINGS		
perating temperature	0–40 °C	[2]
ORDERING & ACCESSORIES		
Detector option	$LaBr_3(Ce^{3+})$ instead of NaI(Tl)	[2]
GENERAL		
Sampling points	Rooms: up to 5; Stack: 1	[1]
Detection limit, F-18	Below 1 Bq/L in a 5-minute measurement	[2]
Lead shielding	100 mm	[2]
Nominal pump flow	16 m^3/h (nominal)	[2]

Sources

[1] MISTRAL XM
ELSE NUCLEAR · product-page · product page · checked 2026-10-16
https://www.elsenuclear.com/portfolio/mistral-xm/

[2] MISTRAL XM – Air activation monitoring system (datasheet)
ELSE NUCLEAR · datasheet · p. 2 · checked 2026-10-16
https://www.elsenuclear.com/wp-content/uploads/2026/05/DAT_MISTRALXM_EN_1.14.pdf

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.