ELSE NUCLEAR

NAUSICAA 2IC

Gaseous effluent monitor

A fixed system measuring beta activity in air and gas streams while compensating for ambient gamma radiation.



Detector type
2 identical ionization chambers [1]

Total weight
Approximately 150 kg [1]

Specifications

DETECTOR

Detector type	2 identical ionization chambers	[1]
Active volume	10 L per chamber	[1]

MEASURING RANGE

Measurement range	H-3: 37 kBq/m³ to 370 GBq/m³	[1]
Gas sensitivity	Kr-85: 2.0 pA/(MBq/m³); H-3: 0.3 pA/(MBq/m³); Xe-133: 4.0 pA/(MBq/m³)	[1]
Gamma sensitivity	10^{-13} A/(µSv/h)	[1]

CONNECTIVITY & INTERFACE

Communication	Ethernet, USB and RS485; Modbus for Ethernet/RS485	[1]

POWER & BATTERY

Power supply	230 VAC, 50 Hz	[1]
Typical power consumption	1.5 kW including pump	[1]

MECHANICAL

Chamber material	AISI 316 stainless steel	[1]
Total weight	Approximately 150 kg	[1]

ENVIRONMENT & RATINGS

perating temperature	0–40 °C	[1]

GENERAL

Measurement functions	Beta activity concentration with gamma-background compensation	[2]
Typical sampling flow	40 L/min	[1]
Filter	HEPA filter	[1]
Alarm levels	Two adjustable levels: pre-alarm and alarm	[1]

Sources

[1] **NAUSICAA 2IC – Fixed effluent gas monitor (datasheet)**
ELSE NUCLEAR · datasheet · p. 2; p. 1; p. 2, Technical Specifications – Measurement performances · checked 2026-10-16
https://www.elsenuclear.com/wp-content/uploads/2026/05/DAT_NAUSICAA2IC_EN_1.03.pdf

[2] **NAUSICAA 2IC**
ELSE NUCLEAR · product-page · product page · checked 2026-10-16
https://www.elsenuclear.com/portfolio/nausicaa-2ic/

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.