ELSE NUCLEAR

# SATURN 5702

## Mobile gamma and neutron monitor

A mobile station for gamma and neutron dose-rate monitoring, including accelerator facilities.




Weight

**Approximately 130 kg** [1]

## Specifications

### DETECTOR

| | | |
|---|---|---|
| Gamma detector | ICP-T or ICP-T-PF ionization chamber | [1] |
| Neutron detector | LUPIN BF3 rem counter | [2] |
| Remote detector distance | Up to 20 m | [2] |

### MEASURING RANGE

| | | |
|---|---|---|
| Gamma energy range | 30 keV–10 MeV | [1] |
| Gamma dose-rate range | ICP-T: 10 nSv/h–10 Sv/h; ICP-T-PF: 10 nSv/h–100 mSv/h | [1] |
| Neutron energy range | Thermal (0.025 eV)–10 GeV | [1] |
| Neutron dose-rate range | 10 nSv/h–100 mSv/h | [1] |
| Sensitivity | Gamma (ICP-T): approx. 2 × 10−⁸ A/(R/h) (¹³⁷Cs); neutrons (LUPIN BF3): 0.6 cps/(µSv/h) | [1] |

### ELECTRONICS & SIGNAL

| | | |
|---|---|---|
| Relay contacts | 4 contact sets for external devices | [1] |

### CONNECTIVITY & INTERFACE

| | | |
|---|---|---|
| Communication | Ethernet or RS485/422; 5700 sMON | [1] |

### MECHANICAL

| | | |
|---|---|---|
| Typical dimensions | 60 × 68 × 160 cm | [1] |
| Weight | Approximately 130 kg | [1] |

### ENVIRONMENT & RATINGS

| | | |
|---|---|---|
| perating temperature | −20 to +50 °C | [1] |

## Sources

**[1] SATURN 5702 – Gamma-neutron mobile monitoring station (datasheet)**
ELSE NUCLEAR · datasheet · p. 1; p. 2; p. 2, Technical specifications – ICP-T gamma detector and LUPIN BF3 neutron rem counter · checked 2026-10-16
https://www.elsenuclear.com/wp-content/uploads/2026/01/DAT_SATURN5702_EN_1.11.pdf

**[2] SATURN 5702**
ELSE NUCLEAR · product-page · product page · checked 2026-10-16
https://www.elsenuclear.com/portfolio/saturn-5702/

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.