

COUNTINUOUS GAMMA MONITOR OF MATERIALS IN TRANSIT

GALILEO 9900P

MAIN FEATURES

- *Large, high sensitivity plastic scintillators for gamma radiation detection*
- *Fast and reliable gamma monitoring for conveyors*
- *Simple, modular and highly adaptable architecture*
- Installed above or under a conveyor
- User-friendly management software, allowing parameters setting (e.g. alarm threshold and integration time)



DESCRIPTION

GALILEO 9900P is a continuous gamma monitoring system which employs plastic scintillators, designed and developed to easily assess if the material in transit, such as transported by a conveyor, is contaminated. **GALILEO 9900P** finds its main application in monitoring of scrap metal, steel plates, or foundry dust.

The architecture of the system is simple and modular, thus highly adaptable.

The system is composed of a fixed structure installed directly above or under a conveyor. The detector is housed in a stainless-steel box, properly shielded to lower the environmental background contribution.

The typical volume of the plastic scintillators is 25 l, but smaller 7.5 l detectors can be provided upon request.

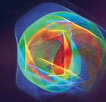
The detectors are equipped with a PMT and an electronics module for HV supply and signal processing. The system is managed by a desktop or panel PC through a user-friendly software interface.

Measurements are performed continuously, through moving average data analysis and on the basis of a pre-set integration time. The system performs the subtraction of the environmental background, which can be automatically determined or set to a fixed value, and provides luminous and acoustic warnings when the pre-set alarm threshold is trespassed.

The results of the measurements are saved in the internal archive, and printable reports are available to the user.

The main components of **GALILEO 9900P** are the following:

- Plastic scintillator 1000x500x50 mm installed inside a stainless-steel box
- Counter module for data acquisition
- Control console (desktop PC or panel PC)
- Power supply module
- Remote alarm column ALU (upon request)



TECHNICAL SPECIFICATIONS

Detection unit

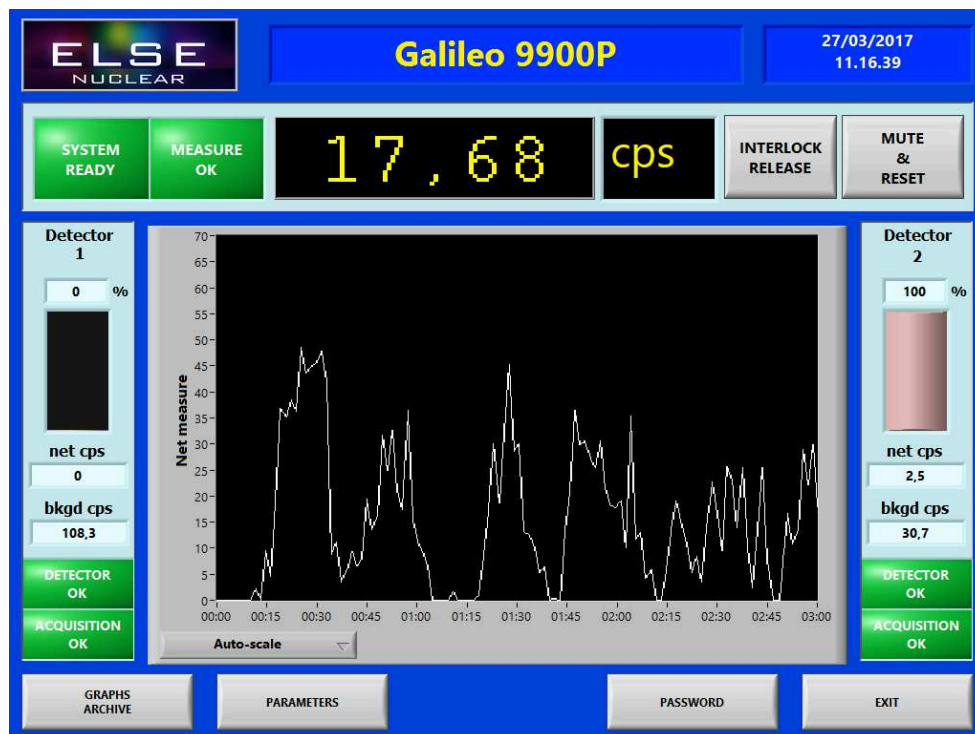
- Detector type: plastic scintillator
- Sensitive volume: 25 l
- Dimensions: 1000x500x50 mm

Detector housing

- Dimensions (WxHxD): 600x1480x220 mm
- Weight: 171 kg
- Material: Stainless steel, 3 mm
- Shielding on external sides: Lead, 10 mm

Central acquisition unit

- Hardware: Desktop or panel PC
- Data communication: RS485



Software GALILEO 9900P main panel

OPTIONS

- Panel PC as an alternative to desktop PC
- 7.5 l detector as an alternative to 25 l detector

ACCESSORIES AVAILABLE UPON REQUEST

1. ALU alarm unit for status signalling
2. Warranty extension from 12 months to 24 months