Arktis V2000 Connect Radiation Portal Monitor

Reliable detection of radioactive goods

Ideal solution for the recycling industry

Radioactive sources are often used in technical and medical applications. Around the world, thousands of these sources are disposed of inadvertently or criminally, ending up in recycling facilities, waste disposal sites, and steel mills processing scrap metal. Arktis offers a solution to protect such facilities and their personnel from the risk of contamination, thereby ensuring compliance with applicable regulations.

- Monitoring the plant's entrance for radioactive material
- Highly sensitive radiation measurement with dynamic background adjustment
- UNI 10897:2016, IEC EN 62022 conform
- Alarm triggering in real time, without delay
- Configurability depending on the operating procedure and the type of incoming vehicles
- Remote monitoring and maintenance

New in the V2000 Connect version

- Web application operable from PC, tablet or smartphone
- Optional categorization or nuclide identification
- Options for camera system, light signals and alarm columns
- Software for central monitoring of multiple portals, conveniently accessible via web browser

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Radioactive sources pose a health risk if they enter the recycling loop or are accidentally melted down during steel production. Strict regulatory requirements, aiming to reduce the risk of contamination, require the installation of radiation measurement systems in the plants concerned and a safety culture related to the subject.

Arktis' solution

Arktis' solution is first and foremost customer-friendly, reliable, and simple. Arktis offers an intuitive web user interface in the latest version V2000 Connect, which is easy to use. The V2000 Connect was specifically developed to meet the needs of recycling plants, steel mills and waste incineration plants. It can be expanded with additional detectors and therefore offers optimum investment protection in the event of future tightening of radiation protection compliance requirements.

Why Arktis? What do our customers say?

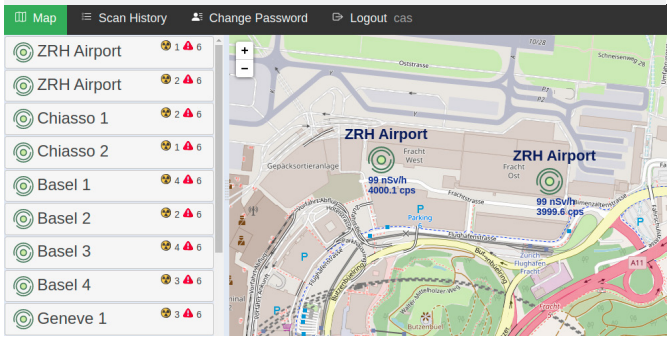
"We at the public institution GEVAG chose the V2000 portal from the Swiss company Arktis Radiation Detectors because this solution meets all legal and GEVAG-specific requirements. Furthermore, the support from Switzerland with a short response time, represents a great added value for us", Wolfgang Bux, Quality Manager / SiBe at GEVAG.

Specifications V2000 Connect

- False alarm rate: <1/1000 (adjustable)
- Energy range: 50 keV to 1.5 MeV
- Minimum detectable dose: 10 nSv/h (at 4 m detector separation)
- Recommended passage speed: 10 km/h
- Detector type: plastic scintillator
- Number of detector units: 2 (optionally expandable up to 6)
- Volume: 25 l per enclosure
- Detector dimensions: 1000 x 500 x 50mm
- Occupancy sensors: 2 light barriers or optional LIDAR
- Dimensions (HxWxD): 1600 x 750 x 420 mm
- Protection class: IP55
- Total weight (per unit): 200 kg
- Support structure, depending on the version (height 140 cm, weight 52 kg)
- Power supply: IN 230 VAC – 50 Hz
- Control unit 19" rack mount, optional desktop case
- Data interface: LAN Ethernet 100 Mbps
- Option RTC radiation measurement portal with source categorization (NORM, medical, industrial, nuclear) to optimize decision-making processes
- Option for nuclide identification: crystal scintillators are integrated in addition to the plastic scintillators
- L-Shape configuration for tight spaces: the upper detector can be swiveled at the touch of a button

Central Alarm Station

Central monitoring of multiple measurement portals



Arktis products are developed and manufactured in Switzerland. Arktis is ISO 9001 certified.

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