



CETTO INDUSTRIES

INNOVATIONEN FÜR DIE STAHLINDUSTRIE

Radioactivity measurement
system for conveyor belts

ConRaD
ShredScan C4 C5
DustScan



since 1922
made in Germany



Monitoring system for
conveyor belts

ConRaD

ShredScan C4/C5

DustScan

What you should know about radioactive sources

Various technical and medical applications use radioactive sources. Afterwards, these sources are often disposed of irresponsibly or criminally. Thousands of these sources wander around the world undetected in metal scrap and other waste. If these sources enter the recycling process, they endanger the health of workers and adjacent residents and there could be non-foreseeable damages. Moreover, complete loads, filter systems and the environment can be contaminated for a long time. To minimize this potential threat to employees, environment and population, measurement systems against radioactivity are used at different points.

We offer in our portfolio stationary and portable radioactivity measurement systems to detect radioactive sources. The systems are modular in design and applicable in many ways. Our customers include, for example, steel works, rolling mills, recycling plants,

foundries, waste incinerators, hospitals, ports, etc. We do not provide measurement systems from the shelf, but local advice and adapt our instruments individually to the local conditions at the customer. We develop our systems in accordance with national and international standards for radioactivity measuring devices. In addition, we guarantee our customers through continuous development a measurement system that is on the state of the art.

Particularities of our conveyor belt measurement systems



- » 2048 channel fine measurement with nuclide identification with crystal scintillator
- » Large area plastic detectors for applications with enhanced transport speed
- » Differentiation between natural and artificial radioactivity (with crystal scintillator)
- » Notification by e-mail or GSM message in case of alarm
- » Logging of all measurement results
- » Integrated lead shielding to reduce background radiation
- » Warning in case of fluctuating background
- » Sum spectra for increased sensitivity
- » Self-monitoring system
- » Expert mode, password protected
- » Optimized measurement reports including all measurement information



System options



- » Warning light, signal horn
- » Connection to central monitoring system I-Server
- » Automatical stop function for conveyor belt in case of alarm

Do you have another wish? Talk to us! For the contentment of our customers, we will do almost anything!



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Technical specifications

- » Technical Specifications
- » Radiation type: Gamma radiation
- » Multichannel analyzer: MCA-2048
- » Detector communication: LAN
- » Max. number of detectors: 12
- » Speed measurement: 2 pcs laser distance sensors
- » Evaluation unit: Panel-PC 10,2" or 19" with touch display
- » I/O-Ports: RS-232, RJ45, USB2.0, VGA, Audio, HDMI, Wi-Fi
- » Temperature range: -20 – 50 °C

Available Scintillators

Crystal CsI(Na):

- » Dimensions: Ø 50 x 357 mm
- » Lead shielding: 10 mm
- » Energy range: 20 keV – 3 MeV
- » Detector housing: GFK 800 x 600 x 300 mm

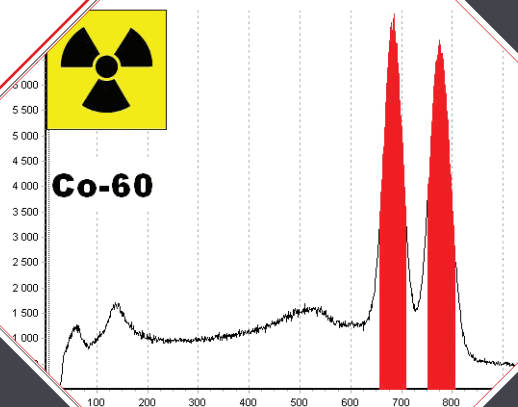
Plastic Scintillator:

- » Dimension: 250 x 1000 x 50 mm
- » Energy range: 50 keV – 3 MeV
- » Lead shielding: 10 mm

Our service for you:

- » Efficient consulting on site
- » Attractive financing schemes (leasing and hire purchase)
- » Individual detector assembly according to local conditions
- » Free online support and remote maintenance
- » Assistance in case of alarm
- » Establishing contact with authorities
- » Transfer to experts
- » Development of emergency plans

Ask for our national and international reference lists!



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