

grabSPEC

AUTOMATIC RADIATION DETECTION SYSTEM
INTEGRATED IN CRANE GRABS



APPLICATIONS

- Recycling industry
- Steel industry

FEATURES

- Fast response time (≤ 2 seconds)
- High gamma sensitivity
- Energy range 60 – 3000 keV
- TFT-display with touch-screen
- Audible and visual alarm

New

Now with Spectroscopy Mode



SCRAP METAL MONITORING WITH WIRELESS DATA TRANSFER

grabSPEC is an automatic radiation detection system for cranes and similar scrap handling systems equipped with grabs. The resistant and robust grabSPEC can be mounted directly into the grab of a crane. This results in minimum distance between scrap and detector and therefore best detection sensitivity.

THE grabSPEC CONSISTS OF THE FOLLOWING COMPONENTS:

- the user interface in the crane cabin
- the wireless, radio-controlled, shock resistant NaI-detector in a ruggedized housing
- the ruggedized, but easy accessible battery case
- the battery charger including a 2nd battery to be charged in the cabin
- optional: a remote display

SPECIFICATIONS

FEATURES

Functions:	Automatic scrap monitoring of radioactive contamination
Electronics:	Multi-Channel-Analyzer, type: nanoSPEC2
Detector:	NaI(Tl), size depends on grab type

SYSTEM SPECIFICATIONS

Energy range:	60 keV to 3 MeV
Sensitivity:	> 2300 lps/ μ Sv/h with \varnothing 3" x 2" NaI(Tl)
Response time:	2 seconds
Detection sensitivity:	A shielded ^{137}Cs source with 30 nSv/h dose rate (this is equivalent to an unshielded 35 kBq source) will be detected in a distance of 1 m with \varnothing 3" x 2" NaI(Tl) detector
Detector housing:	Steel, powder painted
Shock resistance:	> 30 g
Battery:	Dry lead battery, 6 V / 10 Ah



PHYSICAL DIMENSIONS

Dimensions:	depends on grab type
Weight:	depends on grab type
Protection:	water proof, dust tight (IP65)
Temperature range:	-20 to 50 °C (-4 to 122 °F)

MOBILE CONTROL UNIT

Display:	8" TFT-LCD, Touch-Screen
Operating system:	Windows® XP
Communication:	Wireless data transfer between detector and control unit
Alarm output:	Alarm on-screen and sounder
Alarm levels:	3 levels, software controlled
Dimensions (PC):	200 x 160 x 70 mm (7.9" x 6.3" x 2.6")
Dimensions (Display):	220 x 140 x 40 mm (8.7" x 5.5" x 1.6")
Weight:	2,5 kg (5.5 lbs)
Power:	12/24 V DC, 230 V AC

BATTERY CHARGER (EXTERNAL)

Power:	100 - 240 V AC
Output:	6 V / 2 A
Dimensions:	125 x 75 x 65 mm (4.9" x 3" x 2.5")

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