Thermo Scientific RadEye GR 210

Wireless Radiation Detection System for Grapple Installation

The new RadEye GR series offers grapple-mounted radiation detection capability to minimize the threat of radioactive material in the scrap metal stream.

- Rugged gamma radiation detection and alarm system
- Small investment & low cost of ownership
- Multiple portable RadEye R display units possible
- · High battery lifetime
- Low maintenance requirements
- Straightforward installation process
- Simple and comprehensive data logging and reporting



The Thermo Scientific RadEye[™] GR 210 brings a highly sensitive gamma radiation detector close to material being handled with a grapple. The detector is ruggedly shock mounted inside it's protective dome. This combination has proven very durable in the harsh conditions of scrap metal handling.

The detector radiation signal output is passed to a radio device mounted at side of the grapples body. From there the data is wirelessly transmitted to the RadEye R, a data display and alarming unit located in the crane's cabin in direct view of the operator.

The many decades of experience we have in detecting radioactive orphan sources results in the following unique design benefits.

The low power consumption concept of the allows 600 - 1300 h of the grapple detector

operation without battery exchange (4 x AA size) leading to unmatched low maintenance requirements.

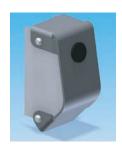
The wireless RadEye R can be operated for 600 hrs with two standard AAA sized batteries, is mounted in the crane cabin by a suction cup holder and can move easily with the grapple to an alternative crane. Up to 1600 sets of radiation data are stored automatically in the RadEye R while keeping the user informed about all key live data via its LCD display, LED light and acoustic sounder.

The RadEye GR 210 is a powerful radiation search tool while minimizing the impact on operators workflow and grapple capacity.





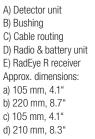


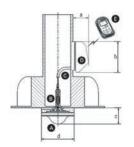


Radio & battery unit

This unit comprises
the radio module with
integrated chip antenna
(fixed to the flap) as well
as one battery module for
quick exchange in case of
low detector power.







RadEye GR 210 # 425520901

| Detector unit | | |
|--|--|--|
| Baseplate to be welded to grapple | Diameter 210 mm (8.3") | |
| Protection dome | 2 I volume | |
| Sealed scintillation detector | NaI(TI) with PMT & shock absorber | |
| Sensitivity | Alarms on an unshieled Cs-137 source of 0.2 MBq in 0.4 m, 16" distance within 5 sec. | |
| Total weight | 11 kg, 24.3 lbs | |
| Radio & battery unit | | |
| Protective housing | Height: 220 mm, width: 110 mm, depth: 105 mm; weight approx. 7 kg, 15.4 lbs | |
| Radio module | Installed inside the radio & battery unit | |
| Wireless data communication | ZigBee, 1 mW, range max. 100 m, 328 ft | |
| Quick exchange battery module | 4 AA batteries; operation time 600 - 1300 h; spare module included | |
| Display, alarm and data logger unit RadEye R | | |
| See item RadEye R # 4255220 below | 1 pcs. RadEye R is included | |
| Fixing inside the crane cabin | 1 pcs. gooseneck adapter included; installation via suction cup; # 425522005 | |
| | | |

RadEye R # 4255220 (option 2nd RadEye R receiver)

| Display, alarm and data logger unit RadEye R | | |
|--|---|--|
| Portable module | 2 AAA batteries operation time approx. 600 h; weight is less than 0.2 kg, 0.4 lbs; Wireless data receiving (ZigBee); additional units can listen to one radio | |
| Alarm annunciation | 85 dB in 30 cm distance; high power LED | |
| Internal data logger | 1600 data sets; history data with set time interval; event log | |
| PC – interface | IR (standard) or Bluetooth™ (option) | |
| Belt holster (option) | Holster for RadEye R, # 425067046 | |

Software (optional, configuration of a RadEye GR 210 does not require a PC)

| Software (operation requires hardware accessories for PC connection of the RadEye R receiver unit) | | |
|--|--|--|
| Setup & Maintenance | Radeye.EXE, # 425069951; configuration and parameter filing data download to PC; interlock of menu functions | |
| Documentation | GateCheck.EXE, # 425069953; easy to use; protocols per batch, day or week; configurable setup | |
| PC connection via Bluetooth | Bluetooth battery lid, # 425067087; active Bluetooth increases the battery consumption | |
| PC connection via USB | USB data cable # 4254026 + desktop holder # 425067060; recommended data communication connection to a PC | |

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