

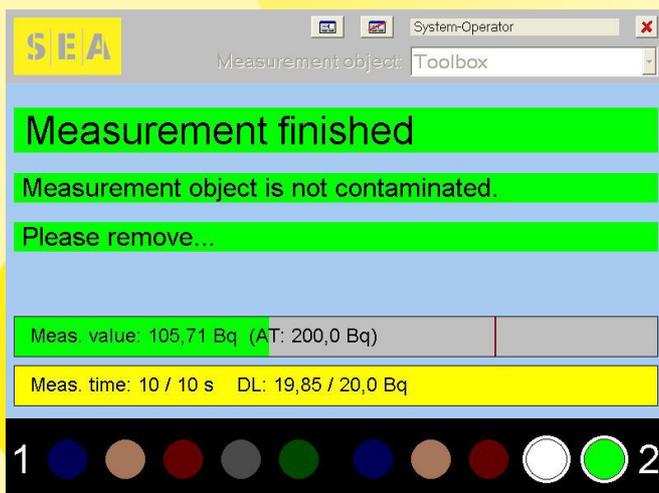
PRODUCT INFORMATION

Clearance Counter FR2(4) with γ -plastic scintillation detectors

Objects used in controlled areas (tools, measuring and testing instruments, documents) must be checked for contamination according to the radiation protection ordinance when leaving the controlled area.

The clearance counter is equipped with 2 large-area plastic scintillation detectors. The measuring chamber (approx. 450 x 450 x 550 mm) is shielded on all sides with 5 mm low-activity lead to guarantee a low background. In a measurement time of 30 s (BG-measuring time 300 s) a detection limit of < 100 Bq is reached, related to Co-60, located in the center of the measuring chamber (75 Bq of Co-60 at 30 sec. measuring time, 100 sec. background and 50 nSv/h dose rate).

The clearance counter is equipped with 2 doors. In case of contamination, the cold zone side door is locked and an acoustic alarm is activated. A version with 1 door is also available.



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Technical Data:

- mechanics completely made of stainless steel with integrated lead shielding
- mechanics as desired with 2 doors, e.g. as a lock at the controlled area border or with one door, manual operating of the doors
- useable volume of the measuring chamber approx. 450 x 450 x 550 mm (W x D x H)
- 2 large-area γ -plastic scintillation detectors each with 2,250 cm² (450 x 500 mm) in the sides
- PC-based measuring electronics with PC-104-industry-PC-system, integrated in the top of the measuring chamber.
The operation and display of measuring values are effected by a touch pad, additionally status indications and buttons support the operation
- The user-specific, menu controlled software is easy to use and allows selection of calibrated measuring objects (with nuclide- and object-related calibration). Measuring values in cps or nuclide-related in Bq or Bq/cm².
- integrated menu for recurring test with administration of the test sources
- routine for autocalibration of the detectors
count rate display of all detector channels for fast function check
- detection limit 75 Bq related to Co-60 with t = 30 s measuring time.
- storage of the measurements with data base function
- system dimensions approx. 620 x 620 x 728 mm (W x D x H without screen, wheels and hand grips), total weight approx. 300 kg
- 12.1" LCD screen

