

INTEGRATED TEST SET ITS421

The Integrated Test Set ITS421 is a dedicated test system for ENVINET's Intelligent Gamma Probe IGS421-H. It consists of a gamma-emitting reference source and a fixed-geometry source holder and comes with an integrated PC ENVILOG. This PC provides a test software routine for probes accuracy measurement, the "Automatic Accuracy Test", which meets all requirements for the periodic test measurement (verification) of the three gamma detectors used in IGS421-H. Probes testing are finished with an automatic test report.

The source and holder are used to perform the Automatic Accuracy Test of the two low dose (LD) and the high dose (HD) detectors. The radioactive material is deposited homogeneously on the inner surface of the ring source and is protected by a 1.5 mm (0.06 in.) thick aluminum coating. Suitable for outdoor use (see data below).

During the Automatic Accuracy Test, the source is put over the gamma probe without removing the probe from its mounted position. The fixed-geometry source holder (distance holder) ensures the source is placed in the same position relative to both LD and HD detectors every time the test or calibration is performed. The recommended frequency for performing the Accuracy Test of the gamma probe is once per year.

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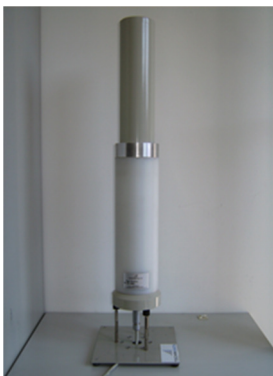


Figure 1: Application of the ITS with IGS421-H

GENERAL VIEW ITS421

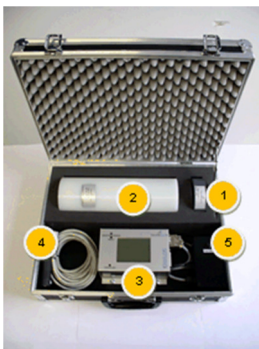


Figure 2: Complete ITS421: 1. Source / 2. Distance Holder / 3. ENVILOG PC / 4. Cable set / 5. External connectors

TECHNICAL DATA

- Nuclide type: Cs-137
- Activity ~360 kBq (~10 µCi) +30%, -0%
- Source type (product code): CDRB12222
- Operating Conditions: Temperature range:
 - of source -40°C to +60°C (-40°F to +140°F)
 - of ENVILOG -20°C to +70°C (-4°F to +158°F)
- Air humidity range: 0% to 100%
- Dimensions (diameter x height)
 - Source: 96x30 mm (3.78x1.18 in)
 - Distance holder: 96x295 mm (3.78x11.61 in)
 - Case: 450x350x150 mm (17.7x13.7x5.9 in)
- Integrated PC "ENVILOG" with TFT-Display and touch panel 60x80 mm, CF card 256 MB, Fast Ethernet 10/100, 1x USB, and more
- Test software "Accuracy Test" for probes automatic testing (incl. test report)
- 2x external connectors (power supply interface 12 V DC) for the probe and the complete system

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Technical contents are subject to change without notice!