

MICRO-R-SURVEY METER

TYPE : UR 705



Technical Data

Micro-R Survey Meter Type : UR 705 manufactured by NUCLEONIX SYSTEMS is primarily designed to measure low level Gamma and X-radiation. This Portable Survey Meter, designed around integrally coupled 1" x 1" NaI(Tl) Scintillator to a 1 1/2" PMT, will offer an optimum performance in counting Low-Level Gamma Radiation dose rate.

This unit can measure and display dose rates in the range of 0-10000 µR/hr on a dot matrix LCD Display. Dose rates close to natural background levels can be measured accurately.

This unit is ideally suitable for Radiometric and Environmental Radiation Monitoring involving low-level radiation dose rates.

This unit employs micro-controller based design and has number of unique features. User can store up to 1000 readings at the press of a button and can recall back, for visual indication on a dot matrix LCD display. This unit is provided with a built-in micro USB port (optionally) through which the stored data can be down loaded into PC.

FEATURES :

- Conforms to ANSI N42.17A performance specifications for Health Physics instrumentation (portable) & CE compliant.
- Microcontroller based design
- Compact, elegant and light weight
- User can store upto 1000 readings
- Detects Gamma and X radiation
- Measures dose rate from 0-10000 µR/hr High Range (or) 0.01 to 99.99 µSv/hr
- Detector : 1" x 1" x 1 1/2" NaI (TI) Detector probe assembly is built into the instrument enclosure box
- Micro USB port (built-in), Micro USB cable extra (Optional)
- Built in audio
- Works on 6V DC dry cells

SPECIFICATIONS

Detector :

(a) NaI (TI) Scintillator, 1"d x1"h coupled to a Photomultiplier Tube. Detector assembly is inside the survey meter enclosure.

(b) External unit through 1mtr cable

Calibration Accuracy :

(a) Better than +/-15% (specified with a Cs-137 standard source) from 100 µR/hr onwards

(b) within +/-20% upto 10000 µR/hr

Acquisition mode:

CPS : 0-50000

CPM : 0-5000

Dose Rate (mode):

1-10000 µR/hr or

0.01-100.00 µSv/hr

Over Range : This instrument will show over range above the 10000 uR/hr

Data Storage : Can store upto 1000 data readings. Stored data can be recalled back on to display.

Display Indication: Dot Matrix LCD display for dose rate / cum dose.

Sensitivity: 1 µR/hr or 0.01µSv/hr

Serial Port (optional) : Built-in micro USB port facilitates data down loading into PC. Data Communication Software with Micro USB connecting cable can be provided at extra cost as an additional option.

User Interface : START, STOP, PROG, STORE, INC, DEC, POWER ON/OFF command buttons for setting of parameters & operation of the instrument.

Power: 6 volts DC, BPL Excell or DURACELL ULTRA, Size AA, MN1500 LR6 (4 X 1.5 Volts), Alkaline cells.

Dimensions :

106W x 196L x 95Ht in mm (Approx.)

Weight :

Unit with detector (1"x1" NaI) : 2kg

