

Features: for Counting Rate meter/Face Scanning System

- For Use in Underground uranium Mines for physical assay (total gamma count measurement) of uranium rock for ore grade measurement.
- It should be compactible to attached with Geiger Muller tube (GM tube)
- Should be rugged and should operate at high moisture (90% and above) environment.
- Pre calibrated.
- Compact, lightweight, portable, hand held, battery powered instrument.
- Modes of Data Acquisition: Count Per Second (CPS), Count Per Minute (CPM) If More option is available than also acceptable like GRADE%.
- Compatibility: GM Tube based detectors will be attached to the meter.
- Choice of Adj. TC (Time Constant) in 'GRADE', acquisition mode.

Specifications:

Radiation Detected	Gamma Radiation (Total gamma counts)
Modes of Data Acquisition	Counts Per Second (CPS), Counts Per Minutes (CPM).
Time Selection On the top panel	At least from 10 sec to 100 sec (may be provided through programmed logic pad or through analog rotating switch).
Operating Voltage variation option	At least From 300 Volts to 1200 Volt. Switch to vary voltage should be provided on the top pane (either through logic pad or analog rotating switch)
Measuring Range for Grade	At least from 0.001 to 1.0 %eU3O8 (or 10 ppm to 10000 ppm)
Connector on the top panel	BNC female/Amphenol connector (on the 12 Volt output port) BNC Female/ Amphenol connector (on the EHT output port) <ul style="list-style-type: none"> • The male connector should be provided with machine. • One extra male & female connector should also be provided.
Switch for selection of output	There should be a switch (analog or logic controlled) to select to get 12Volt output and EHT output.
Visual Indication	i) Dot matrix LCD display for reading CPS, CPM. ii) Low battery indication on LCD display. Or Display through Seven segment LED.
User Interface On the top panel	User interface is through control buttons, ON-OFF, START, STOP, PROG, STORE/RECALL, TIME, The above functions allow the user to program & operate the instruments in different modes. The same may be provided by either by touch pad or analog switches.
Data storage memory (Optional)	Stores readings upto 1000 readings in built-in EEPROM. Stored data can be recalled on the display or transmitted to PC through USB Port.
Audio	Built-in piezo buzzer provides beeps for every acquisition.
Dimensions	Not More than 20cm x 14cm x 20cm (LWH).
Weight	Not more than 2.5 kg.
Power supply (Battery)	The machine should be operated using 12 Volt Rechargeable batteries (combination of AA size batteries) or better arrangement which can be accommodated inside the machine. <ul style="list-style-type: none"> • charger should be provided with the equipment
Machine Carry bag	Water proof carry bag should be provided with the machine