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PULSE SURVEY METER, MODEL 1030



- TE ION CHAMBER
- MEASURES RADS
- GAMMAS AND NEUTRONS

The model 1030 is a Pulse Survey Meter. It has been optimized for use in pulsed radiation fields and will measure absorbed dose from any penetrating radiation including x-rays, gamma rays, neutron and high energy particles. It has both rate and integrate ranges.

The detector is a cylindrical parallel plate ion chamber with interleaved collection and signal plates. This results in excellent collection efficiency. The detector is constructed of tissue equivalent plastic and the filling gas is also tissue equivalent.

The instrument has been tested in fields of 10 Megarads per hour instantaneous with excellent response. If you make beam on measurements in nanosecond fields, you should consider the Model 1030.

Specifications

Mechanical

- ♦ Dimensions: 4"H, 5 1/4" W, 15" L
- ♦ Weight: 5 1/2 lb.
- ♦ Case: Painted aluminum
- ♦ External Controls: Range Switch with positions OFF, Battery, 100,10,1,.1,0.01 rad/h full scale, Reset, 10,1, 0.1 mrad full scale

Detector

- ♦ Type: Sealed tissue equivalent ion chamber: Volume 150 CC, Multiple parallel plates inside sealed aluminum can.
- ♦ Wall material: A 150 TE Plastic
- ♦ Wall Thickness: 0.07" TE Plastic. Aluminum can: 0.065"

Operational

- ♦ Readout: 3 1/5" Taut band meter
- ♦ Ranges: Ratemeter Ranges: 0-100, 10, 1, 0.1, 0.01 rad/h. Integrate Ranges 0-10, 1, 0.01 mrad
- ♦ Reproducibility: $\pm 15\%$
- ♦ Temperature Dependence: $\pm 15\%$ 0 to 50 C
- ♦ Humidity Sensitivity: Some sensitivity to high humidity conditions.
- ♦ Geotropism: The instrument will momentarily read upscale or downscale when the instrument is moved vertically or horizontally.
- ♦ Warm up time: 1 minute
- ♦ Batteries: 4 D cells 150 hours, 4 # 505 22.5V batteries for collection voltage
- ♦ Internal Controls: Adjustment for each range, zero, HIV battery test
- ♦ Reset Switch Option: Mounted below meter.

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Specifications subject to change without notice.

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