

RANDOM PULSE GENERATOR

Model # PV-R2

MANY USES ESPECIALLY CALIBRATION OF RADIATION METERS

FEATURES:

- CORRECTS FOR COINCIDENCE LOSS
- TRUE MEAN COUNT RATE DISPLAY
- 6 DIGIT LCD
- VARIABLE: PULSE HEIGHT, PULSE WIDTH, & PULSE RATE



Figure 1: PV-R2

The most frequently used method for calibration of a pulse counting radiation monitor is via a pulse generator followed by a "touch up" on a radiation calibration course. However, "coincidence loss" at high counting rates based on randomness of radiation pulses is not matched by the evenly spaced output of the usual "pulser".

The **PV-R2 Random Pulse Generator** corrects this deficiency and results in little or no "touch up" in the final radiation course checkout.

DESCRIPTION: The **PV-R2** Random Pulse Generator furnishes pulses whose width can be set to match the effective width of the GM or scintillation pulse in the counting system. Pulse height, Pulse frequency and Pulse width are all settable. The true mean value of the Pulse rate can be traced to an NIST standard. This true mean Pulse rate is displayed on a 6 digit LCD. The Pulse output is protected against high voltage which may be present on the connector of the counter being checked.

SPECIFICATIONS:

Readout:	6 digit LCD display.
Pulse Width:	1 μ sec to 500 μ sec effective.
Pulse Amplitude:	1 MilliVolt to 2 Volts.
Polarity:	Switchable negative or positive.
Pulse Frequency:	1 cps to 10^5 cps or 10 cpm to 10^6 cpm true mean value.
Output Connector:	MHV protected to 3 KV.
Power:	115 Volt 60 Hz, 0.3 A (Optional 220 V 50-60 Hz, 0.2 A).
Dimensions:	8 1/4" W x 2" H x 6 1/2" D.
Weight:	2.6 lbs.
Shipping Weight:	4 lbs.

TA **TECHNICAL ASSOCIATES**
7051 ETON AVENUE * CANOGA PARK, CA 91303 TELEPHONE (818) 883-7043 * FAX(818) 883-6103

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