PUG-7-D
DIGITAL

PUG-7
ANALOG

Superior Universal Electronics

Model Series - PUG-7

Models – PUG-7-D, PUG-70-D, PUG -7-DF

Application

Any Alpha, Beta, Neutron, X-ray or Gamma monitoring program, whether aimed at the measurement or control of radiation levels or of contamination, is served by the versatile PUG-7-D electronics, combined with a T/A probe.

This universal instrument can be used with any P series, Geiger, or scintillation probe in the T/A line.

Description

The **PUG-7-D** electronics utilizes continuously adjustable regulated high voltage supply 1500V (2,500 volts Optional) to operate GM or scintillation detectors delivering a one millivolt or above pulse. An adjustable discriminator allows full control over system sensitivity. The pulse input is zener diode protected so that probes may be interchanged without shutting off instrument.

The **PUG-70-D** is the same as the PUG-7-D with **a built-in user settable alarm.**

PUG-7-DF is a full system and includes PUG-7-D, and a Probe - PGS-3 (one inch NaI(Tl) scintillator). Readout is in microR/h (or SI units).

Read out on the PUG instrument is in CPS; optionally in SI units or mR/h or other units. Calibration for different probes or situations is accomplished by inputting constant calibration content which can be accomplished using the 2 front panel buttons after unlocking them from standard mode.

The shell of the instrument is smoothly finished, attractive baked enamel over aluminum case. The cover is machined, anodized aluminum with highly visible markings.

Features

- Accepts GM and Scintillation Probes
- Alpha, Beta, Neutron, X-Ray or Gamma
- Portable
- Battery Operated
- Digital
- Five Decades
- No Range Switching Required
- Compensation for Coincidence
- **Optional**: Rechargeable Batteries Charger

PUG-7-D Series:

- PUG-7D – Built-In, User Settable Alarm
- PUG-7DF – Full System Includes: Electronics and PGS-3 Gamma Probe

CBRN
Real - Time Air & Water Specialists

TECHNICAL ASSOCIATES
OVERHOFF TECHNOLOGY

7051 ETON AVENUE, CANOGA PARK, CALIFORNIA 91303
PHONE: 818-883-7043 | FAX: 818-883-6103
SALES@USNUCLEARCORP.COM | TECH-ASSOCIATES.COM | USNUCLEARCORP.COM

DIVISIONS OF
US NUCLEAR CORP
OTCQB-UCLE

Superior Universal Electronics

Model Series - PUG-7

Models – PUG-7-D, PUG-70-D, PUG -7-DF

Sensitivity

- **Ranges:** 5 Decades with no range changing required.
  See chart below for different probe ranges.

RANGES: Choose any probe below or any TA or compatible probe including silicone solid state.

Some choices include:

PROBE	DESCRIPTION	RANGE						UNITS
ALL PROBES	ALL PROBES	0.1	1	10	100	1,000	10,000	cps
GM	Thin window Alpha-Beta, Gamma, X-Ray,							
P-15	2" dia Pancake		.02	.2	2	20	200	mR/h
P-6LB	Low background		.1	1	10	100	1,000	mR/h
SCINTILLATOR	GAMMA SCINTILLATION							
PGS-3	Gamma			.05	.5	5	50	mR/h
PGS-3T	Low Energy Gamma			.01	.1	1	10	mR/h
PGS-3L	Low/mid Energy Gamma			.03	.3	3	30	mR/h
BGS-2505	Low Energy BGO probe			.01	.1	1	10	mR/h
PNS-20	Neutron Scintillator	0.1	1	10	100	1000	10,000	$n/cm^2/s$

Specifications

Digital Display: Length = 6 digit rate, 8 digit total dose
Other meter scale markings are available.

Engineering Units: User can input correct conversion factor and change to any units.

Front Panel Controls: On-Off, Alarm-mute, Rate, Integrate, Alarm Set and Reset.

Recessed or Internal: Discriminator level, high voltage

Other Adjustable Settings: See calibration.

Detectors: Any GM (P-13, P-15, P-6LB, etc.) or Alpha, Beta, Gamma or Neutron scintillator (PAS-8, PAS-9, PGS-3, PNS-19, etc.).

Probe Holder: Probe Holder is provided for probe purchased.

Input Sensitivity: Adjustable from less than 1 millivolt to 100 millivolt

Accuracy: ±10%

Anti-Saturation and Dead-time Corrections: Differentiation circuit provides highly effective compensation for coincidence loss. This allows all five decades to accurately read with scintillation detectors.

CBRN Real - Time Air & Water Specialists

TA

TECHNICAL ASSOCIATES
OVERHOFF TECHNOLOGY

7051 ETON AVENUE, CANOGA PARK, CALIFORNIA 91303
PHONE: 818-883-7043 | FAX: 818-883-6103
SALES@USNUCLEARCORP.COM | TECH-ASSOCIATES.COM | USNUCLEARCORP.COM

DIVISIONS OF
US NUCLEAR CORP
OTCQB-UCLE