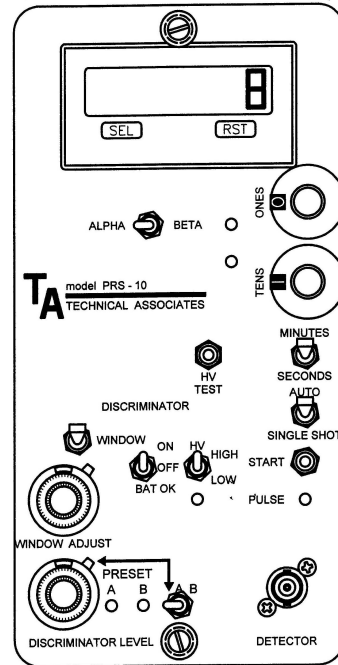


FIELD-USE SCA SCALER / RATEMETER

Model # PRS-10

FEATURES:

- PROGRAMMABLE
- TWP (2) SINGLE CHANNEL ANALYZER WINDOWS, SWITCH SELECTABLE, TWO H.V. BIAS PRESETS
- CRYSTAL 8 DIGIT LCD DISPLAY
- ANY T/A GM, PROPORTIONAL, OR SCINTILLATION, ALPHA, BET GAMMA, X-RAY, NEUTRON PROBE
- SPLASH PROOF
- ANSI N42, 17A* COMPLIANT



DESCRIPTION:

The PRS-10 is a sturdy portable instrument designed for rugged field use, but incorporating both scaler and digital ratemeter modes, single channel analyzer with two pre-settable windows, and two pre-settable H.V levels. Variable high voltage 0-2500V. All calibration adjustments are available from outside the case as is the battery pack. All closures are gasketed or otherwise sealed to result in a splash proof instrument. Optional back-light can light the display when the "illuminate" button is depressed and remain lighted for approximately 6 seconds.

Pulses are seen via a LCD. The time base for scaler operation is indicated by a flashing red and green LED. Accommodates pulses from all types of detectors including scintillators, proportional and GM detectors. Gate times for the scaler may be set from 1 to 99 seconds (and 1 to 99 minutes). The scaler has an auto cycle capability particularly useful for increasing the accuracy of rate measurements and floor operating optional data logger system. Power switch and HV pot and other controls are designed to prevent inadvertent change. The output of the "beeper" is varied by a volume control from completely silent to loud enough to be used in quite noisy environments. Standard features include jack for optional AC adapter and output jack for serial port. Yer the overall instrument, including all of these functions and including battery life up to 100 hours, still weighs less than 4lbs, making it one of the lightest instruments of this type available.

* ANSI N42.17A-1989

TA TECHNICAL ASSOCIATES

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SPECIFICATIONS:

DIGITAL

- Readout:** 8 digit LCD - 0 to 9,999,999 counts.
- Time Base:** Crystal controlled one minute count time unless user makes a change.
- One Minute Count:** User can make a one minute count by pushing the start count button.
- Other Count Times:** 1-99 sec in one second increments, 1-99 min in one increment
- Run Modes:** Single shot, autcycle
- Scaler On-Off:** Scaler ON indicator is a red LED. Flashes every second. Green LED flashes to signal end of count. LED off (dark) shows scaler is off.

DIGITAL RATEMETER MODE

- Time Constant:** Adjustable 1 to 60 seconds.
- Range:** 0.0 to 99,999.9 CPM, or 0.0 to 20,000.0 CPS – No auto scaling, no range switching.
- Audio Indicator:** Piezo electric sounder with volume control.
- Single Channel Pre-Sets:** 2 switch selectable windows.
- H.V. Pre-sets:** 2 preset (re-settable) high voltage positions.
- Analyzer/Discriminator:** 10-turn, pot for each threshold, 2-50mV.
10-turn, 1000 division pot for window width
- Detector:** Mates with T/A probes, any GM, proportional or scintillation, alpha, beta, gamma, positron, x-ray, neutron or tritium.
- Detector Connector:** MHV bulkhead mount.
- Detector Bias:** 0-2500V regulated and filtered. Recessed pot is available from front panel.
- Calibration Controls Are:** User Accessible, but protected against in-advertent adjustments. No computer or software needed to set-up or calibrate PRS-10.
- Units Display:** Default units are CPM. Units of measure CPM or CPS, shown by LED's.

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POWER

- Batteries:** 6 each AA cells NEDA 15, accepts Alkaline, Carbon-Zinc, Lithium, or rechargeable NiCads with no adjustment required. Battery pack available from outside case.
- Battery Life:** Greater than 100 hours with alkaline batteries.
- Battery Check:** Battery check via "Bat OK" LED.
- AC Operation:** Connector for optional AC adapter
- Splash proof:** Seals and gaskets throughout
- Construction:** All plug in circuit cards; essentially no wires. Sturdy deep drawn aluminum case
- Dimensions:** 23cm L x 10.5cm W x 14.5cm (9" x 4.1" x 5.7"). Includes handle and tilt stand both in folded position
- Weight:** 1.7 Kg (62 oz) including batteries.
- Options:** Serial Connection for interface to printer or data logger.
- Accessories:** AC Adapter.
Over 50 different T/A probes and sample counter detectors
Probe holder supplied - no charge if probe and PRS-10 purchased together
Data logging system including: data-logging cable and ORO-LOG software.
Compatible with Windows XP or Vista on portable P.C.

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