

DIGITAL RATEMETER/SCALER DUAL DISPLAY

IDEAL READOUT FOR DUAL ALPHA-BETA DETECTORS

Model – PRS-2SX

FEATURES:

- DUAL DISPLAY BATTERY OPERATION
- DUAL DETECTORS –
 - P-15 - (GM) ALPHA, BETA, GAMMA, X-RAY, PROBE
 - PAS-8 - ALPHA SCINTILLATION PROBE
- DETECTOR BRACKETS - (1) ON EACH SIDE FOR PRS-2S
- 2 SEPARATE SCALE FACTORS FOR RATE & TOTAL
- READS OUT FROM 2 SEPARATE PROBES SIMULTANEOUSLY;
NO ENERGY DISCRIMINATION
- 0.1-99 sec TIME CONSTANT FOR RATEMETER
- 6-DIGIT – RATEMETER; 8-DIGIT - SCALER
- ALARM - AUDIO/VISUAL USER SETTABLE
- ALSO IDEAL FOR LONG COUNT - UP TO 24 HOURS OR MORE
- DATA ARCHIVE AND RETRIEVAL
- COMPUTER INTERFACE; USB / RS-232 SERIAL OUTPUTS
- POWER: RECHARGEABLE BATTERIES VIA AC AND SOLAR
- **OPTIONAL:** PRE-AMPLIFIER
- **OPTIONAL:** LCD BACKLIGHT DISPLAY
- **OPTIONAL:** INTEGRATED GPS/GLONASS RECEIVER
- **CE MARK; IP67**



PRS-2SX



P-15

APPLICATION:

PRS-2SX used as both a Ratemeter / Automatic Scaler and as an Area Monitor.

- Battery operated.
- Use with wide variety of detectors such as dual detectors, sample or wipe counter.
- "Frisker" monitor and lab monitor.



PAS-8

DESCRIPTION:

The PRS-2SX is a multi-purpose lightweight Scaler with internal replaceable battery.

- Includes a digital ratemeter operating mode presenting 6 full decades of accurate readout without switching.
- The PRS-2S is a sturdy bench top or portable instrument incorporating both scaler and ratemeter functions.
- Gate time for the scaler is free running mode.
- Readings directly in mR/hr or other units can be made by choosing correct scaling factors for the scaler and the ratemeter.



TECHNICAL ASSOCIATES

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SPECIFICATIONS:

DETECTORS:

| | |
|---------------------------------|---|
| Detector: | P-15 GM - Alpha, Beta, Gamma and 5 KeV X-Rays and above. |
| Detector: | PAS-8 - Alpha Scintillation Probe |
| Measurement Range: | 1 to 2×10^6 |
| Energy Range: | 0.05 to 3 MeV |
| Energy Range: | Beta particles - 0.15 to 3 MeV |
| Beta Measurement Range: | Surface Beta particles flux density: 10-300,000 l/cm ² x min) |
| Beta Measurement Range: | Surface activity Beta emitting radionuclides 0.5 to 13,500 Bq/cm ² for CO1 source ⁹⁰ Sr/ ⁹⁰ Y |
| Alpha Measurement Range: | Surface Alpha particles flux density: 10-300,000 l/cm ² x min) |
| Alpha Measurement Range: | Surface activity Alpha emitting radionuclides 0.5 to 10,000 Bq/cm ² for ²³⁹ Pu source |
| Pulse Count Rate: | 0-9999 cps |

ELECTRONICS PRS-2S:

| | |
|--------------------------------|---|
| PRS-2S: | Reads out from 2 separate probes simultaneously No energy discrimination |
| EMP Interference: | None |
| Data Output: | Data Archive and Retrieval |
| Computer Interface: | USB |
| Display: | Backlight LCD visible from 2 meters, updated each 2 seconds |
| Calibration Confidence: | ±15% 137 Cs |
| Calibration Schedule: | 12 months between calibrations |
| Alarm: | Audio / Visual, Presettable Dose and Dose Rate, Low Battery Warning |
| Temperature: | -22° F to 131° F (-30 C° to 55° C) |
| Environment: | Atmospheric pressure 57.2 kPa |

POWER:

| | |
|-------------------------------|--|
| Power: | Batteries: In-place rechargeable batteries. |
| Battery Life: | Li-Ion battery , 4000mAh; built-in protection |
| Instrument Protection: | Short circuit and overcharge |
| Battery Charger: | 100 to 240 V, 50-60 Hz; 9-32 V from internal solar battery |



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Construction: All plug-in circuit cards, essentially no wires. Rugged, lightweight

Dimensions: 3-1/4" H, 4-1/4 W, 7-1/4" (99 x 129 x 221 cm)
excluding probe holder and handle.

Weight: 2 lbs. (0.9 kg)

Compliance: MIL-STD-810G and MIL-STD-461F
IEC 60846 and IEC 60325

Options: Pre-amp for proportional detectors
Other connectors - MHV etc
In-place rechargeable batteries

Location Tracking: Integrated GPS/GLONASS receiver

| Digital Display | RATEMETER | SCALER |
|----------------------------|--|---------------------------|
| Range | 6-digit LCD | 8-digit LCD |
| User Settable Scale Factor | 0.1 - 20,000 count/sec | 0-10,000,000 Total counts |
| Time Constant | 0.01 to 99 seconds Display Refresh Rate | Free Running |



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