

ANALYZING RATEMETER SCALER

分析测量仪

PORTABLE

Model – PRS-7 & PRS-7-DSC

FEATURES: 特点

- SINGLE CHANNEL ANALYZER
单通道分析仪
- DETECTS: ALPHA, BETA, GAMMA, X-RAY, TRITIUM, POSITRON, MESON, COSMIC RAYS – DEPENDING ON DETECTOR SELECTED
探测: α β γ , X射线, 氚, 正电子, 介子, 宇宙射线-选择相应的探头
- VERSATILE AC & RECHARGEABLE BATTERY
多用 AC 电源和可充电电池
- THREE PRESETTABLE WINDOW POSITIONS
三个预设窗
- SWITCH SELECTABLE
开关选择
- SIX DECADES
6 个量级
- CRYSTAL CONTROLLED
晶体控制
- USE WITH ANY T/A GM, PROPORTIONAL, OR SCINTILLATION ALPHA, BETA, GAMMA, X-RAY NEUTRON PROBE
与 TA 公司 GM 管, 正比计数管或晶体 α , β , γ , X 射线, 中子探头一同使用
- SPLASH PROOF 防水溅
- IP43

PRS-7-DSC

- DUAL SINGLE CHANNEL ANALYZER
双单道分析仪
- 2 INDEPENDENT DETECTOR INPUTS
2 个独立探头输入
- COINCIDENCE CIRCUIT SIGNALS IF BOTH DETECTORS SEE A PULSE AT THE SAME TIME
如果两个探头同时看到脉冲, 则视为符合电路信号。



PRS-7



PRS-7-DSC



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Divisions of



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DESCRIPTION: 描述

The **PRS-7 & PRS-7-DSC** are sturdy portable instruments designed for rugged field use.

此系统坚固的便携式设备

- Both integrate and ratemeter functions.
总计数及计数率功能
- Single channel analyzer with three presettable windows.
单道分析仪带3个预设窗
- Variable high voltage 0-2000v.
可变高压0-2000v
- All closures are gasket sealed to result in a splash proof instrument.
所有接口密封防水
- LCD style scaler readout.
LCD读数器

The time base for integrate operation is user settable. The **PRS-7 & PRS-7-DSC** accommodate pulses from all types of detectors including scintillators, proportional and GM detectors. Six digits are incorporated into the ratemeter.

综合计数时间可用户设定，**PRS-7 & PRS-7-DSC**适合各种探测器脉冲分析，包括闪烁体，正比和GM探头。六位数读数器

The **PRS-7 & PRS-7-DSC** provides focus on 1 or 2 isotopes even in the presence of others.

此系统即使在其它核素出现情况下也可以只锁定1、2个核素。

Gate times for the integrate mode may be set from 1 to 10,000 seconds. The integrate capability is particularly useful for increasing the accuracy of rate measurements and for operating optional printer.

总计数模式控制时间可设定范围1-10,000秒，整合功能对增加计数率测量精度和打印机操作尤其有用。

Power switch and HV pot and other controls are designed to prevent inadvertent change. The audio output of the high level alarm is controlled by a volume mute switch.

电源开关和高压电位计及其它控制设计防止疏忽操作，上限报警由音量开关控制。

Standard features include jack for AC adapter and serial output jack with optional USB adaptor. Yet the overall instrument, including all of these functions and battery life up to 1 week, weighs only 5 pounds.

标准配置包括AC适配器，串口输出，可选USB适配器。整个仪器包括所有功能和寿命长达1周电池总重才5磅。

SPECIFICATIONS:

规格

- **Digital Readout:**
数字读出器: 6 digit LCD Rate, 8 digit integrate.
6位LCD计数率，8位数总计数
- **Time Base:**
时基: Crystal controlled 1-10,000 seconds, user settable.
晶体控制1-10,000秒，用户设定



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- **Display Modes:** Rate, Integrate.
显示模式: 计数率, 总计数
- **Range:** 量程
Usable Probes Cover Range: 1uR/hr to 1000 R/hr; 0 to 30,000 Cps; 0.1 mRem/hr to 10 Rem/hr.
可用探头覆盖量程:
- **Alarm:** 2000 Hz audio tone with audio “mute” switch + RED LIGHT, high current relay.
报警: 2000Hz声音报警带静音, 红灯及大流量继电器
- **Single Channel:**
3 Switch Selectable Windows: 3开关选择窗
2 preset (resettable) window positions plus one “variable”.
2个预设窗位置加一个“可变”窗位置
- **Analyzer/Discriminator:** 10-turn, 1000 division pot for each threshold.
分析仪/甄别器: 10转, 每个阈值1000刻度电位计
10-turn, 1000 division pot for window width.
10转, 每个窗宽1000刻度电位计
- **Detector:**
Mates with T/A Probes, any GM, Proportional or Scintillation- NaI(Tl); BGO, LaBr:
与TA公司探头兼容, GM, 正比或 碘化钠 锗酸铋, 溴化镧晶体闪烁探头
Alpha, Beta, Gamma, Positron, X-Ray, Neutron, Tritium.
 α β γ 正电子, X-Ray, 中子和氚
- **Detector Connector:** BNC bulkhead mount (MHV optional).
探测器连接件: BNC夹板式连接件 (可选MHV)
- **Detector Bias:** 0-2000V regulated and filtered.
探测器偏压: 0-2000V 调节过滤
- **Front Panel Controls:** On-Off Toggle; Alarm-Mute; Rate; Integrate; Reset;
前板控制: 开关, 报警静音, 计数率, 总计数, 重设
- **Supply:** High Voltage is adjustable & repeatable with the 10 turn dial.
电压: 可调节高压, 10转
- **Settable scale factors allow readout in almost any units.**
可设定定标系数允许读出任何单位
- **Engineering Units:** User can input correct conversion factor and change to any units.
计量单位: 用户可输入正确转换因子转换成任何单位
- **Controls:** Front Panel: On-Off, Alarm-mute, Rate, Integrate, Reset.
控制: 前板: 开-关, 报警-静音, 计数率, 综合计数, 重设
- **Calibration:** Digital input of calibration factor gives high precision adjustment.
校准: 校准系数数字输入给出高精度调整



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- **Serial Output:** Two way, RS-232 standard, USB optional.
串口输出: 两路标准RS-232, 可选USB
- **Construction:** NEMA-4X polycarbonate gasket sealed case with handle:
Rugged / splash-proof.
All plug in circuit cards.
结构: NEMA-4X密封PC外箱, 带把手。结实防溅, 插板式电路
All plug in circuit cards.
- **Computer interface:** RS-232, USB, etc. or complete data logging and acquisition systems.
Output for Digital Printer
电脑接口: RS-232, USB等, 或全数据录入系统, 数字打印机输出
OPTIONS: USB
可选项: Output for Digital Printer
USB及外接打印机

POWER:

电源

- **Power:** 105-125 volts, 50-60 Hz (220 V optional)
电源:
- **Batteries:** 12v, 4.8 Amp Hour built-in L-ion battery pack with AC Charger Adapter
电池: 12V, 4.8安培小时, 内置锂电池组带AC充电器适配器。
- **Battery Life:** 3-5 days at 8 Hour/day
电池寿命: 每天8小时, 3-5天

WEIGHT AND DIMENSIONS: - PRS-7

重量和尺寸: - PRS-7

- **Dimensions:** 10" L x 4.1"W x 7" H (25 cm L x 10.5 cm W x 18 cm H)
Includes handle
尺寸: 包括把手10"长 x 4.1"宽 x 7"高
- **Weight:** 5lbs (2.5kg) including batteries.
重量: 包括电池5磅
- **Options:** Alarm Relay
选择: 报警继电器



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WEIGHT AND DIMENSIONS: - PRS-7-DSC

重量和尺寸: PRS-7-DSC

- **Dimensions:** 10" L x 7" W x 7"H (25 cm L x 18 cm W x 18 cm H) Includes handle
尺寸: 包括把手10"长 x 7"宽 x 7"高
- **Weight:** 8lbs (4kg) including batteries.
重量: 包括电池8磅

Over 50 Different T/A Probes And Sample Counter Detectors:

50多种T/A探头及样品计数探测器

Some of TA's Detector Model Numbers

其中一些TA探头型号

A	P6-LB	F	DMU-1000
B	PAS-9	G	P-15
C	BGS-IN	H	STB-TF-6
D	COLLIMATOR	I	TS-26
E	PLS-04	J	PN-3



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RANGE SPECIFICATIONS: 量程规格

Sample of TA's Probes

TA 探头

PROBE 探头	DESCRIPTION 描述	RANGE 范围						UNITS 单位
ALL PROBES	ALL PROBES	0.1	1	10	100	1,000	10,000	cps
GM	Thin window Alpha-Beta, Gamma, X-ray 薄窗 α β γ x-线							
P-15	2" dia Pancake 直径 2" 扁平管		.02	.2	2	20	200	mR/h
P6-LB	Low Background 低本底		.1	1	10	100	1,000	mR/h
SCINTILLATION 闪烁体	SCINTILLATION 闪烁体							
PGS-3T	Low Energy Gamma 低能伽马			.01	.1	1	10	mR/h
PGS-3I	Low / Mid Energy Gamma 低/中能量伽马			.03	.3	3	30	mR/h
BGS-2505	Low Energy BGO Probe 低能 BGO 探头			.01	.1	1	10	mR/h



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