



PCXR4 The Premier Personal Sample Pump

Personal or Area Sampling

The result of extensive research and development, the PCXR4 is a constant flow air sampler suited for a broad range of applications. With an operating range of 5 to 5000 ml/min (low flow applications of 5 to 500 ml/min require an optional adjustable low flow holder), this battery-operated sampler is ideal for industrial hygiene studies as well as environmental testing. Specifically designed for "on-worker" and "fenceline" applications, the PCXR4 is typically used with collecting devices such as filters, impingers, sorbent tubes, and sample bags.

- Multiple tube sampling capability
- Compensation with high back pressure
- Ultra-quiet operation
- Wide range of flow rates
- Energy-efficient
- Durable construction

The Indispensable Air Sampler

Highly accurate, yet easy to operate, the versatile PCXR4 Air Sampler is suited for industrial hygiene studies as well as environmental testing. Specifically designed for "on-worker" and "fenceline" applications, this sampler is typically used for TWA, STEL, or Ceiling sampling using:

- Sorbent tubes
- Sample bags
- Long-duration detector tubes
- Impingers
- Filters and cyclones

The PCXR4 is so dependable, we guarantee its performance for a period of one year from date of purchase.

Powerful Pneumatic System

With its broad flow range (5 to 5000 ml/min), the powerful PCXR4 does the work of both a high flow and low flow pump—in a single unit. Its state-of-the-art pneumatic system delivers a constant flow, so you get accurate air volumes without the need for frequent sampler adjustments. This system includes four components:

- Pulsation dampener for smooth airflow
- Built-in flowmeter to monitor pump flow
- Pressure regulator for low flow sampling
- Filter assembly to prevent clogging of the pump

Long-life NiCad Battery Pack

The NiCad battery pack provides a minimum 8-hour continuous run time. The battery charge test ensures the pump runs the entire shift.

High-Accuracy Timer

Using a precision timing circuit, the PCXR4 provides an instant readout of the duration of sampling. A convenient "Hold" feature allows a pause in sampling; one stroke of the keypad allows you to resume sampling.

- Testing possible up to 12 hours
- Timing accuracy ± 0.05%
- Large, easy-to-read LCD

Back Pressure Compensation

The PCXR4 is factory-preset to compensate for back pressures to 40 inches water (over the most commonly used flow ranges). As back pressure increases, the motor voltage is automatically corrected to maintain a constant flow over the operating range. You will not sacrifice air volume accuracy, even in dusty environments.

Multiple Tube Sampling Capability

The PCXR4's built-in constant pressure regulator allows you to take up to four simultaneous samples with rates up to 500 ml/min each using an optional adjustable low flow holder (not included). With multiple tube sampling, you'll reduce time in the field and use fewer pumps.



PCXR4 on worker

Automatic Fault Shutdown

To ensure the integrity of your results, the sampler is programmed to shut itself off in the event of:

- Excessively restricted flow (e.g., a pinched hose or extreme back pressure)
- Low battery voltage

The pump will automatically enter the "Hold" mode, and the appropriate indicator ("LoBatt" or "Flow Fault") will light. The LCD will show the Sampling Time recorded at the point of shutdown.

A High Standard of Safety

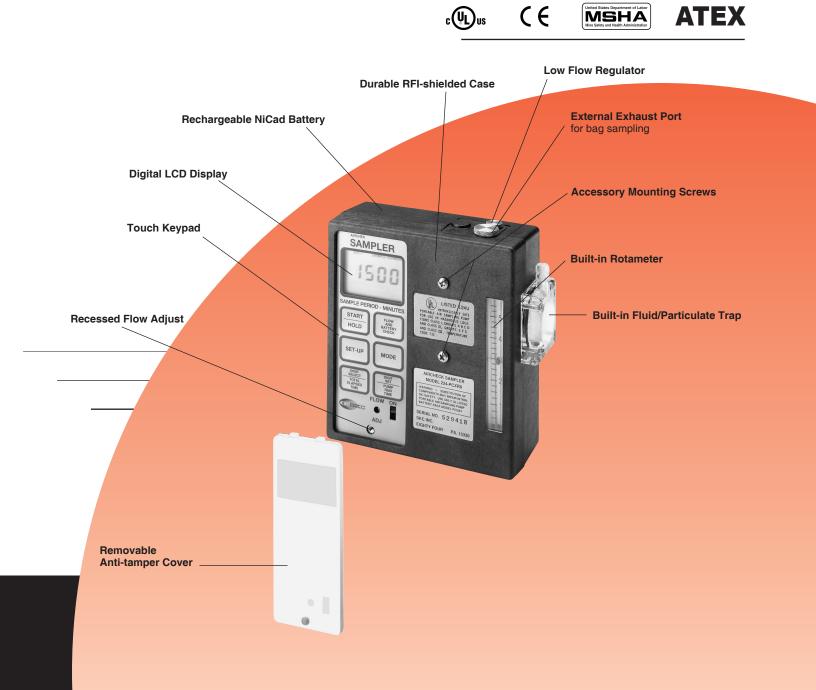
Intrinsically safe, the PCXR4 is UL Listed for explosive gas and dust atmospheres of Class I, Groups A, B, C, D: Class II Groups E, F, G; and Class III for Temp Code T3C. MSHA and ATEX models are available. Contact SKC.

RFI and EMI Shielding

SKC's case material and unique circuitry are designed to provide shielding from radio frequency in the range of 27 to 1000 MHz. This shielding prevents fluctuations in the flow caused by electrical effects on the pump's control circuitry. CE marked.

A Variety of Ordering Options

The PCXR4 and its accessories can be purchased together in single and five-pack pump kits or separately for a more customized setup. Accessories include chargers (single or five station), adjustable low flow holders, filter cassette holders, impinger holders, and a protective nylon carrying pouch with shoulder strap and belt. *Note: Kits do not contain all of the accessories listed here.* Contact your SKC regional sales representative for complete ordering information.



Specifications —	- PCXR4		
Operating Range:	5 to 5000 ml/min (5 to 500 ml/min requires adjustable low flow holder)	Flow Fault:	Fault shutdown with LCD indicator and time display retention if flow is restricted
	5 to 3000 ml/min (MSHA approved model)	Battery Test:	LCD indicator verifies battery condition prior to sampling
Weight:	34 ounces (964 gm)	Time Display:	LCD indicator displays sampler run time in minutes
Dimensions:	5.1 x 4.7 x 1.9 inches (13 x 11.9 x 4.8 cm)	Timing Accuracy:	± 0.05% (± 45 sec/day)
Compensation Range:	1000 to 2500 ml/min at 40 inches water back pressure 3000 ml/min at 35 inches water back pressure 4000 ml/min at 20 inches water back pressure	Sampling Pause:	Allows user to temporarily halt sampling without loss of timing data. Restart does not require resetting time.
Flow Control:	Constant flow to $\pm 5\%$ of set point	Multiple Tube Sampling: RFI Shielding	Built-in constant pressure regulator allows user to take up to four simultaneous samples of up to 500 ml/min each (total combined flow 1350 ml/min maximum) using optional adjustable low flow holder.
Run Time:	Battery: 8 hrs minimum at 4000 ml/min and 20 in water back pressure. <i>Dependent on media used</i> .		
	Mains Adapter: 9999 minutes (6.8 days). Pump will shut off as run time cannot exceed timer display range		Complies with requirements of EN 55022, FCC Part 15 Class B, EN 50082-1
Flow Indicator:	(see Timer Display Range below). Built-in rotameter with 250-ml division;		 Frequency range of the radiated susceptibility test was 27 MHz to 1000 MHz
	scale marked at 1, 2, 3, 4, and 5 L/min		• C ∈ marked
Timer Display Range:	1 to 9999 min (6.8 days). Pump will shut off at 9999 minutes. To reset, restart the pump.	Additoinal Specifications: Additional Features:	 Built-in fluid/particulate trap External see-through filter housing Anti-tamper control cover Anti-tamper compensation adjustments Built-in accessory mount Stainless steel belt clip External exhaust port All non-plastic parts made of corrosion-resistant materials RFI- and EMI-shielded case One-year warranty Ultra-quiet operation Pulsation-free flow Impact-resistant case
Battery Assembly:	Plug-in battery pack, rechargeable NiCad 2.0 Ah, 6.0 V, UL Listed		
Intrinsically Safe:	•®- Listed for: Class I, Groups A, B, C, D; Class II, Groups E,F,G; and Class III. Temp Code T3C; MSHA and ATEX models available. Contact SKC.		
Operating Temp:	-4 to 113 F (-20 to 45 C)		
Storage Temp:	-40 to 113 F (-40 to 45 C)		
Charging Temp:	41 to 113 F (5 to 45 C)		
Humidity:	0 to 95% Relative		

Ordering Information

PCXR4 Pump only (without charger)..... Cat. No. 224-PCXR4

Single PCXR4 Pump Kit, deluxe

Includes sample pump with battery pack, single deluxe battery charger, low flow controller attached to type A protective tube cover, filter cassette holder, screwdriver set, and instruction manual in a convenient carry case. 115 VCat. No. 224-PCXR4KD

230 VCat. No. 224-PCXR4KDB

5-pack PCXR4 Pump Kit, deluxe

Includes 5 sample pumps with battery packs, 5 low flow controllers attached to type A protective tube covers, 5 filter cassette holders, 5 screwdriver sets, 5 instruction manuals, and one 5-station battery charger (100-240 V) in a large convenient carry case. The case is suitable for baggage check or shipping via airlines and has room for additional accessories or supplies.

100-240 VCat. No. 224-PCXR4K5D

MSHA and ATEX models available. Contact SKC.

SKC INC.

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Contact SKC International Customer Service at 724-941-9701 in

Eighty Four, PA, USA, for the name of local distributors or assistance

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