

SCA 240N

POWERED AIR PURIFYING RESPIRATOR (PAPR)

TECHNICAL SPECIFICATIONS

Material	Body: MPPPO plastic
Total weight	1,100 g (w/o canisters)
Dimension	220 × 210 × 105 mm
Operating Temperature	-20 °C to +43 °C

BATTERY & PERFORMANCE

Component	Specification	Value
Battery Type	Ni-MH	4.8 V / 240 g
Service Time	Continuous	> 4 hours
Charging Time	Full charge	< 6 hours
Recharge Cycles	Battery life	300-400 times
Airflow(with canister)	Operational	85-100 L/min
Motor Service Life	Expected	5,000 hours

Elevate your CBRN defense capability with the SCA240N, a ruggedized Powered Air Purifying Respirator designed to transform standard gas masks into high-performance positive pressure systems. Delivers a consistent 85 to 100 L/min of clean air, virtually eliminating breathing resistance and reducing physiological burden during high-intensity operations.

The radial blower forces filtered air into the mask, allowing operators to breathe naturally without lung strain while maintaining positive pressure protection for maximum safety factor.

KEY FEATURES



Active Air Supply System

- + PAPR Belt System
- + Powerful radial blower forces 85-100 L/min filtered air into mask
- + Completely eliminates breathing resistance
- + Natural breathing without lung strain during extended missions
- + Reduces physiological burden by up to 60 % vs passive systems



Ruggedized Design

- + Noryl plastic housing for durability and chemical resistance
- + Operating temperature: -20 °C to +43 °C



Operational Advantages

- + Reduced fatigue during prolonged operations
- + Enhanced cognitive performance with unrestricted breathing
- + Increased mission endurance and effectiveness



Positive Pressure Protection

- + Maintains positive pressure inside facepiece at all times
- + Maximum protection factor (PF) by preventing inward leakage
- + Superior seal integrity even during high physical activity
- + Enhanced safety margin for CBRN and TIC environments



Extended Operation Time

- + Ni-MH battery provides 4+ hours continuous operation
- + Quick-change battery system for unlimited mission duration
- + Recharge up to 400 cycles for long-term cost efficiency
- + Fast charging: Full charge in less than 6 hours



Versatile Interoperability

- + Compatible with K10, K3, and all NATO-standard masks
- + Dual 40 mm NATO STANAG 4155 canister mounting
- + Revolving elbow connector for flexible hose positioning