

DATA SHEET

Sundström PAPR SR500ex


(powered air purifying respirator — intrinsically safe)





Updated: 16 May 2008

Description:	<p>Intrinsically safe (i.e. for use in explosive or ignitable atmospheres) battery-powered, fan-assisted air-purifying respirator that can be used as an alternative to negative-pressure filter respirators where these are recommended. This applies particularly to extended periods of hard work in warm conditions.</p> <p>The fan can be used with certain Sundström hoods, face shields or full face masks. The fan unit is fitted with a suitable filter, and the filtered air is fed through a hose to the facepiece.</p>
Product name:	<p>Sundström SR500ex intrinsically safe powered air purifying respirator</p>
Features:	<ul style="list-style-type: none"> • Intrinsically safe • Single-button operation • Visible and audible alarms in case of interrupted air delivery • NiMh battery • Up to 6.5 hours' operation • Approximately 2 hours' recharge time • Supplied with 2 filters/cartridges/combinations • Can be used with hoods (SR520, SR530, SR561, SR562), shield SR540ex, or full face mask SR200
Visual display:	<ul style="list-style-type: none"> • Normal operation • Boost fan operation • Dip in air flow/clogged particle filters • Battery low • Air flow obstruction
Air flow rate:	<ul style="list-style-type: none"> • 175 l/min (normal operation) • 225 l/min (boost fan operation)
Temperature range:	<ul style="list-style-type: none"> • Operation: -10°C to +40°C (14°F to +104°F) at <90% relative humidity • Storage: -20°C to +40°C (-4°F to +104°F) at <90% relative humidity
Low flow warning:	<p><175 l/min</p>
Filter thread:	<p>Rd 44 x 1/7"</p>
Weight:	<p>With battery and P3 particle filter: 1,840 g (4.05 lbs)</p>
Protection factors:	<ul style="list-style-type: none"> • With hoods and shield: 200 (TH3) • With full face mask: 1,000 (TH3)


Intrinsically safe classification (EN standard):

 **II 2 G Ex ib IIA T3** (with SR540 shield or SR200 full face mask with polycarbonate visor)

 **II 2 G Ex ib IIB T3** (with SR520, SR530, SR561, SR562 or full face mask SR200 with glass visor)

 **II 2 D Ex ibD 21 T195°C** (with any of the above)

(Explanation of classification markings:)

 Symbol for risk of explosion

II Equipment group (explosive atmosphere other than mines)

2 G Equipment category (2=high protection level, zone 1, G=gas)

2 D Equipment category (2=high protection level, zone 21, D=dust)

Ex Explosion protected

ib/ibD Type of ignition protection (intrinsic safety)

IIA Explosion group Propane

IIB Explosion group Ethylene

21 Zone with combustible dust

T3 Temperature class, gas (+200°C max, surface temperature)

T195°C Temperature class, dust (+195°C max, surface temperature)