

DATA SHEET

SE46 positive pressure demand respirator



Updated: 08 Aug 2006

Description:	<p>Positive-pressure demand respirator. The respirator is microprocessor controlled and supplies positive pressure breathing air even at very hard work. The SE46 features in-mask communication, a comprehensive warning system, and a usage log which can be downloaded to a personal computer for further analysis.</p> <p>The SE46 is ideal for domestic preparedness applications.</p>
Product name:	<p>SE46</p>
Use:	<p>Used for SCBA-level protection (with full face mask) in filtrable, non-IDLH atmospheres with an oxygen content sufficient for human breathing</p>
Face pieces :	<p>Full face mask in halo-butyl rubber with hard-coated polycarbonate visor and natural rubber head harness.</p> <p>The face pieces contain no electrical parts, and feature an internal pressure sensor, internal microphone, and a warning light in the user's field of vision.</p>
Regulator:	<ul style="list-style-type: none"> ● Flow capability of peak inhalation air flow in the inner ori-nasal mask of 400 l/min or higher. ● Breath responsive: air supply continuously adjusts itself to user's air requirements ● 7–14 mBar supply pressure ● Easy service — no tools ● Tested for equivalent of 3 years' harsh condition ● Acts as negative pressure filter respirator if positive pressure is lost (e.g. battery runs out)
Communication:	<p>All face pieces feature a built-in microphone which connects through the fan unit to an external miniature loudspeaker</p>
Fan unit:	<ul style="list-style-type: none"> ○ Single button operation ○ Auto power-off when removing mask ○ LED light indicators ○ Com-port for loudspeaker or personal computer ○ Brush-less DC motor ○ Continuous monitoring of motor function ○ Microprocessor controlled motor ○ Demist mode provides the user rapid supply of extra air for 20 seconds that not only cools the user's face but also demists the visor of the full face mask
User alarms:	<p>The user immediately receives both audible and visual alarms (through a siren and a warning light in the user's field of vision) upon a range of events, such as:</p> <ul style="list-style-type: none"> ● Filter change required ● Low battery power ● Mask pressure dip ● Various other system alerts

<p>Power supply:</p>	<ul style="list-style-type: none"> ● 2-hour battery recharge ● Ni-Mh battery technology — no memory effect ● Approximately 4 hours' operation at medium work load ● Microprocessor controlled battery charger for long life and battery maintenance ● Optional dual battery adapter for extended operation
<p>Data log:</p>	<p>Fan unit continuously records and time-stamps all vital system information, including:</p> <ul style="list-style-type: none"> ● All alarms issued ● Total air volume drawn through the filters ● Power on/off ● Mask removed <p><i>NOTE: The use of the data log feature is completely optional, and is in no way necessary for the general operation of the SE46</i></p>
<p>Software:</p>	<p>Data log and real-time system monitoring software is included as a simple-to use Windows application.</p> <p><i>NOTE: The use of the software is completely optional, and is in no way necessary for the general operation of the SE46</i></p>
<p>Computer interface:</p>	<p>Standard serial port</p>
<p>Carry devices:</p>	<p>The unit is worn on a back pack with padded shoulder straps and waist harness. The unit may also be worn on a conventional waist belt.</p>
<p>Weight:</p>	<p>SE46 with back pack, single battery and DP filters: 4.3 kg (9.5 lbs)</p>
<p>Accessories:</p> <p><i>Note: for pictures of many accessories, look up the Product Menu</i></p>	<p>A range of practical accessories include:</p> <p>Domestic preparedness components:</p> <ul style="list-style-type: none"> ● Exhalation valve shield ● Tychem F® disposable breathing hose cover <p>Head harnesses:</p> <ul style="list-style-type: none"> ● Cloth head harness for full face mask ● Cloth head harness for full face mask, suitable for use with hard hat <p>Spectacle inserts:</p> <ul style="list-style-type: none"> ● Spectacle insert for full face mask <p>SE-shield protective suits:</p> <ul style="list-style-type: none"> ● PVC, HPS and VPS fully encapsulated suits ● Tyvchem F® disposable chemical suit ● SE-shield breathing hose <p>Other:</p> <ul style="list-style-type: none"> ● Prefilters and prefilter holders ● Belt attachment for SE-Talk communication unit ● Cloth storage bag for full face mask ● Disposable clear visor covers ● Fit test adapter for performing negative pressure facepiece tests ● Gang battery conditioner
<p>Storage and transport case:</p>	<p>Store at room temperature in clean, dry place</p>

Warranty:

The SE46 is supplied with a comprehensive warranty, covering the motor and the main circuit board for three years or 6,000 operating hours, whichever comes first.

Other parts are covered for 12 months for manufacturing faults (not including wear and tear). Some exclusions apply.