

IRIS – Integrated Radio Information System

Technical Datasheet

Description

The Scott IRIS is an electronic monitoring, data-logging and display device for use with Scott's range of Self Contained Breathing Apparatus. It consists of an electronic gauge, a pneumatic gauge and a Personal Alert Safety System/ Automatic Distress Signal Unit (PASS/ADSU) module to provide man down alarm and notification. The IRIS system can be specified with a radio module that enables telemetry functionality to the unit, allowing the system to transmit data to an external base station.



Applications

The IRIS system has been designed for use by the professional fire-fighter and will provide additional digital information on air reserves, time to whistle and ambient temperature. IRIS also has the capability to send this information outside of the fire scene to an incident/entry control officer. The IRIS system is designed to be used during any incident when fire-fighters need to wear breathing apparatus.

Approval Information

- CE marked in accordance with prEN137:2002 Class II
- ATEX approved
- Ex Classification without radio Module
- Ex Classification with radio Module

Materials

EMU Case	Polycarbonate
Pass/DSU case	Polycarbonate
Overboot	Flame retardant Thermoplastic Elastomer
Buttons	Flame retardant Thermoplastic Elastomer
Replaceable windows	Polycarbonate
Wire shielding	Flame retardant black Nitrile Rubber
Bung	Flame retardant Thermoplastic Elastomer
Case gaskets	Silicone
Whistle Body	Brass

Whistle flute	Nickel plated Brass
Whistle piston	Brass
O-rings	Silicone, Nitrile
U-clips	Stainless Steel
Screws	Stainless Steel
HP Air Hose	PTCFE liner, stainless Steel braiding, Estane sleeve

Maintenance/Service/Cleaning information

N.B. - Cleaning should only be carried out as specified in the user instructions. Maintenance and servicing must only be performed by trained personnel following the procedures in the Service and Maintenance manual.

Technical Specifications

<u>Sounders</u> <ul style="list-style-type: none"> • Brass Piezo electric sounders • Pre alarm – 84-102 Leq DBa • Full alarm – 102-113 Leq DBa 	<u>Motion Detector</u> <ul style="list-style-type: none"> • Infra-red Mechanical Transducer
<u>Pressure Indicator & Warning Whistle</u> <ul style="list-style-type: none"> • Strain gauge type dial indicator • Heat and impact resistant Polycarbonate lens • Safety blow-out vent in rear of gauge • Accuracy:- +/- 10 bar between 40-300 bar 	<u>Hoses</u> <p>Stainless Steel swivel hose fittings</p> <p>High pressure hose Maximum working pressure 450 bar Minimum burst pressure 800 bar</p>
<u>Batteries</u> <ul style="list-style-type: none"> • Ultra-life 9 volt Lithium Manganese Dioxide (LiMnO₂) batteries 	<u>Packing Specifications</u> <p>EMU - 31.5cm by 22.5cm by 7.5cm Weight 1.5Kg</p>
<u>Weight</u> <p>EMU with radio 1.2kg Base Station 1.95kg</p>	