IRIS

Questions and Answers IRIS

tyco / SCOTT HEALTH & SAFETY

Question:

What is the IRIS system?

Answer:

The IRIS is an Electronic monitoring system that logs and displays various parameters of Scott's SCBA and gives audible and visual alarms to the wearer. With the optional radio telemetry module, this information can also be transmitted outside to an Entry Control Officer to enable them to have situational awareness of the fire fighters conditions and to take action if required.

Question:

Why do I need IRIS?

Answer:

IRIS takes integrated Self Contained Breathing Apparatus to the next level. With IRIS the fire fighter has more information about the status of their breathing set at their fingertips. An easy to read, backlit digital gauge provides information on air pressure, time to whistle and ambient temperature. This increased information allows the fire fighter to take informed decisions that save lives. In extremely dangerous situations, the full telemetry option provides the further reassurance that if a man goes down, an entry control officer will immediately know this has happened and will be able to react quickly to potentially save that fire fighters life. In short IRIS is needed for increased communication, safety and accountability.

Question:

What does IRIS stand for?

Answer:

Integrated Radio Information System

Question:

What is Telemetry?

Answer:

Telemetry is the technology of automatic measurement and transmission of data by (in this case) radio from remote sources.

Question:

Can the IRIS be used with or retro-fitted to any Scott/Sabre set?

Answer:

The IRIS can upgrade the standard pressure gauge and hose assembly on the Scott ProPak, Contour, Centurion and Cenpaq.

Question:

Is IRIS complicated to use?

Answer:

No, with brief training you will be entirely comfortable with the EMU units operation. The display has been designed with instantly recognisable, user-friendly icons to aid instinctive and intuitive operation.

Question:

Is there a long boot up period before the unit is operational?

Answer:

Absolutely not, IRIS has a rapid awakening and self-diagnostic process, so by simply removing the tally key or turning on the air pressure your ready to go. Even in the unlikely event that the digital element of the unit failed, IRIS has the fail-safe of a secondary inbuilt pneumatic gauge to ensure the set always remains operational.

Question:

Will I need to invest in a new tally board procedure?

Answer:

No, Scott believes if it isn't broke don't fix it. The fire services tally board procedure is a proven, reliable process and that is why IRIS has been designed to work in conjunction with existing equipment. Unlike other electronic monitoring offerings there is no need for further investment in new tally board system.

Question:

Does the radio in the IRIS carry voice transmissions as well?

Answer:

No, the radio only carries the telemetry data for the IRIS system, it does not replace the fire fighters existing radios.

Question:

Can the IRIS system be purchased with or without Telemetry?

Answer:

Yes, the user can purchase the EMU unit with or without telemetry. Without telemetry the unit will still provide information to the fire fighter and data-log what is happening to that individual for post event analysis.

Question:

If I purchase the system without telemetry, can I upgrade my system at a later date?

Answer:

Yes, the telemetry module is an optional add-on to the EMU unit and can be quickly and easily upgraded at a later date. The radio module is fitted to the EMU unit inside its casing.

Question:

Is the unit easy to read in the dark?

Answer:

Yes, the face of the pneumatic gauge is luminescent and the electronic display is backlit and angled to make it easy to read.

Question:

Is it possible to accidentally press the panic button on the EMU unit?

Answer:

No, the button has been designed to have a time delay so that only intended/deliberate actions set off the panic alarm.

Question:

What radio frequency does the Telemetry operate on?

Answer:

The telemetry will operate on different frequencies depending upon the area that the unit will be used in. Scott has frequencies assigned for the UK, Europe, Australia and New Zealand.

Question:

What is the signal range of the EMU unit?

Answer:

The range of the EMU unit in “free air” is up to 1.5 miles (2.5Km). This range can decrease if the users are working in buildings containing lots of steel or reinforced concrete.

Question:

What happens if I am out of range or the signal path is blocked?

Answer:

IRIS has a unique safety feature called Ricochet that enables every EMU to act as a repeater station when the evacuation alarm is triggered. This permits an EMU unit that is out of range of the base station or is blocked by impregnable material to receive the evacuation alarm from another EMU unit. This obviously increases the safety of the wearer should the building need to be evacuated and can help to ensure “nobody is left behind”

Question:

How many users can one base station log on and monitor?

Answer:

50 Users.

Question:

How many records can be Data logged?

Answer:

The Base station stores event data in an event log and this will store up to 1000 events. The EMU has a similar storage capacity and stores 1000 events consisting of each command, plus internal parameters recorded once every minute. The data is stored as an endless log with the newest overwriting the oldest once the event log is full.

Question:

How long do the batteries last?

Answer:

In non-telemetry mode the batteries will last for up to 60 hours of use, in telemetry mode for up to 30 operational hours.

Question:

Will the Base Station log on units that are already in a fire situation?

Answer:

Yes, if the Entry Control Officer is on the scene later than a fire fighter, the Base Station will continually scan for an EMU unit and log it on automatically providing the tally key has been removed from the PASS/ADSU.

Question:

Is the IRIS system Intrinsically Safe?

Answer:

Yes, the IRIS EMU and telemetry have the latest Atex approvals so are classified as intrinsically safe.

Question:

How loud is the alarm on the PASS/ADSU unit?

Answer:

The alarm is between 102 and 112 decibels in volume.

Question:

Does the IRIS system meet any UK home office requirements?

Answer:

Yes, The system is compliant with JCDD38 and JCDD40, which are the home office specifications for ADSU and Telemetry ADSU’s.

Question:

Is the IRIS system flame/fire proof?

Answer:
Yes, the system has undergone and passed the same flame testing as the breathing apparatus set and is approved to EN137:2002 class 2. This flame test is a total engulfment at 1000 ^{o}C's for 10 seconds.

Question:

Is the IRIS system serviceable by the user?

Answer:

The user can change the batteries and replace the over-boot and windows if necessary. Any servicing of the electronic elements of the system however, require the unit to be returned to the manufacturer for servicing. This is so that it is ensure that the Atex approval is maintained.

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