



EkoSecure ATEX PAGER

SAFEGUARD EMPLOYEES IN POTENTIALLY EXPLOSIVE ATMOSPHERES

EXPLOSIVE ATMOSPHERES: THE CHALLENGES

If you work in an industry where your business is at risk from potentially explosive atmospheres, then you should be aware of the EU ATEX Directive 2014/34/EU.

The ATEX Directive provides the legal framework that manufacturers must follow in order to sell equipment intended for use in areas with potentially explosive atmospheres. These regulations are intended to protect and safeguard employees in dangerous environments such as oil, gas, mining or chemical installations and those whose work creates potentially explosive atmospheres. Originally introduced in 1994 as the ATEX Directive 94/9/EC, it was introduced by the European Union to ensure the formal safety certification of equipment and systems, including two-way paging devices, which could trigger an explosive reaction.

THE PLATFORM

Multitone's EkoSecure wide area staff security system, enables employers to have the assurance that if an employee or visitor gets into difficulty, an alarm can be raised and rescuers directed to their location.

Moreover, the rescue party will know whether the alarm has been raised manually, by the wearer pressing the red button, or automatically, by virtue of the 'Man Down' or 'Dead Man' alerts, or 'Snatch Cord' activation.

The EkoSecure, ATEX pager provides all of these features and may be won in explosive atmospheres requiring equipment conforming to:

- EN60079-0: General requirements
- EN60079-11: Equipment protection by intrinsic safety
- Certified IS rating: **II 1G Ex IIC T3 Ga (-10 °C ≤Ta≤ +55°C)**

(The pager must be charged in an EKOPC4B rack, outside of any hazardous area).

EKOSECURE – SENDS THE ALARM TO THE RIGHT PEOPLE

Operational Features:

- The hub comprises the controller and memory of an EkoSecure network, it manages a radio mesh network of EkoSecure repeaters (and other devices) and is configured by web pages.
- An alarm message from an EkoSecure Pager is sent through the mesh to the Hub, which processes the alarm and notifies the configured group(s) of other EkoSecure Pagers, with a message including the user's identification, location and type of alarm.
- In the schematic example, all EkoSecure ATEX Pagers have been configured in the same exclusive pager group so that only EkoSecure ATEX Pager wearers are alerted when an ATEX-only rescue needs to be performed of the paint sprayer in the spray booth; standard EkoSecure pager (non-ATEX) wearers are not disturbed.
- EkoSecure repeaters and locators transmit their location, EkoSecure Pagers will show this as a precise location if they are within a few metres of the transmitter, or as a general location if further away.
- EkoSecure pagers are available in ATEX and Non-ATEX models; all other EkoSecure devices are non-ATEX.



Multitone Electronics PLC
Multitone House
Shortwood Copse Lane
Basingstoke
Hampshire
RG23 7NL

+44 (0)1256 320 292
info@multitone.com
www.multitone.com

This brochure is for guidance only. Products and services offered are subject to availability and may differ from those described or illustrated in this brochure as a result of changes. Specifications are subject to change without notice. Multitone Electronics plc is part of Kantone Holdings Ltd.

+44(0)1256 320 292 | info@multitone.com | www.multitone.com

Registered Office: Multitone Electronics plc, Multitone House, Shortwood Copse Lane, Basingstoke, Hampshire, RG23 7NL

Registered in England Number: 256314

