

Mobile workers - in ex-areas supported by the latest technologies - now no longer just a vision

Press Release

PDA for mobile workers in ex-areas



The i.roc® Ci70 -Ex mobile computer has been designed to be ex-safe in Zone 1 and 2 ex-areas. It uses the Windows Mobile 6.5 operating system and is the only device on the market to support all WLAN standards (IEEE 802.11 a, b, g and n)

Mobility and mobile office are the buzzwords of the modern working world. These days, work in ex-areas is also no longer possible without the assistance of computers. However, the mobile computers currently available and approved for use in hazardous areas remain far behind the technologies that have long since become standard in other fields. But the explosion-prevention experts at ecom instruments, in conjunction with Intermec – one of the market leaders for ruggedized PDAs have now developed a platform that right from the outset of its conception meets the demands set out in the requirements for ex-certification. In this, the new PDA is unique because mobile devices for ex-areas have to date only been made safe for use in hazardous environments by retroactively adapting them to comply with current standards. Which, on the one hand, requires lots of effort and, on the other, does not produce entirely reliable devices because manual interventions into sensitive components mean that equipment modified in this way frequently becomes prone to failure. But developing a device "from scratch" also allows the latest technologies – for instance, support for current WLAN standards and UMTS – to be built in from the start. And any required peripherals, such as RFID readers, bar-code scanners and HART modems, can also now be integrated into the mobile ex-computer which means that it is also possible to produce generally ergonomic designs.

First mobile computer designed to be ex-safe from scratch. The i.roc® Ci70 -Ex combines a power-saving processor for long battery performances with all current WLAN standards for rapid and secure data transmissions as well as UMTS support within a single device.



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RFID and bar-code readers or HART modem may be integrated at the factory. And even then the devices convince with their handy design.



The i.roc® Ci70 -Ex also permits mobile data collation in Zone 1.



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Your safety is our job! -The experts for ex-safety

Devices that are employed in ex-areas must meet specific requirements. ecom this field for 25 years and has acquired extensive expertise in providing protection against explosions during everyday industrial work in potentially explosive atmospheres. This knowledge is incorporated in the production of equipment for use on various sectors, including oil and gas, chemicals, petrochemicals, mining, pharmaceuticals, energy and the environment.

Ex-safe mobile computer

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for the device to enable data to be transmitted via the GSM, UMTS/HSDPA and CDMA networks. The integrated GPS feature also permits the device's precise location to be pinpointed. The PDA also comes with a 2.1+EDR Bluetooth interface. A specially designed module-head system also permits a variety of RFID and bar-code readers and a HART modem to be incorporated.

Because of its rugged housing the i.roc® Ci70 -Ex is designed especially for extreme hazardous areas.

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