

[ FUNCTIONALITY SHEET ]

Product:	Ascom d81 Ex Protector
	Ascom d81 Ex Messenger
	Ascom a71 ATEX
	Ascom p71 ATEX
	Ascom 914T ATEX
Solution:	Hazardous Locations



## ASCOM EXPLOSION-SAFE DEVICES MAXIMUM PROTECTION IN HAZARDOUS LOCATIONS

For your safety, Ascom has developed on-site wireless communication solutions that give maximum protection in potentially explosive environments. Our specially-designed cordless phones, pagers and base stations meet the strictest requirements.

### Hazardous locations defined

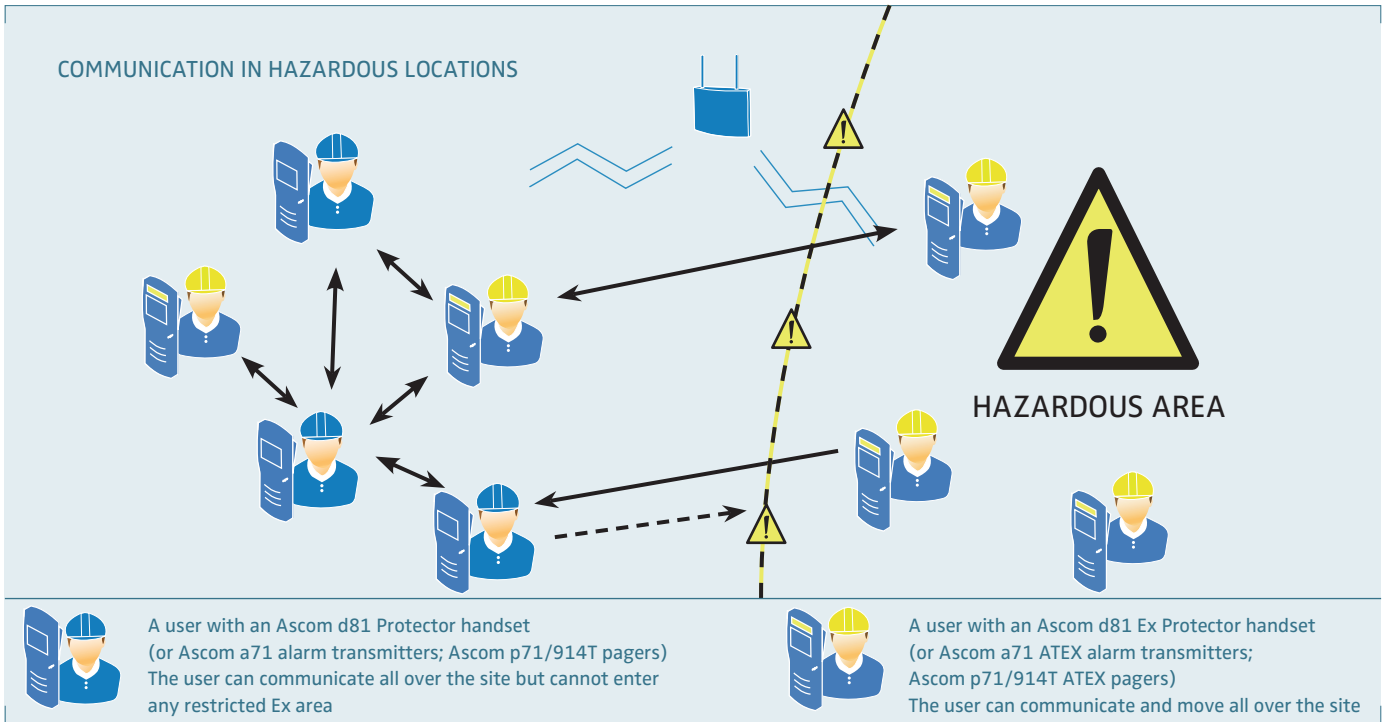
A hazardous location is an industrial environment where gases, vapors, combustible dust, ignitable fibers or flying particles can lead to explosive atmospheres. Hazardous areas are typically found in the petrochemical, pharmaceutical and food processing industries, but also in aerospace, fuel handling and many other sectors. Different systems are used to classify each type of hazard and whether it is always present or only arises under certain circumstances.

### Special certification required

To regulate the design of equipment used in potentially explosive atmospheres (Ex equipment), special certification schemes have been established in various regions globally. Some of these are obligatory by law, while others are simply procurement specifications. Nevertheless their design and requirements are similar.

### Intrinsically safe by Ascom

At Ascom we've designed a range of portable IP-DECT and paging devices in versions classified as "intrinsically safe" (Ex 'i'). That is, they are certified as causing no risk of explosion in gas and dust environments, while still delivering the same unequalled functionality, flexibility and cost-efficiency as other Ascom products used in normal environments. We also offer solutions for installing IP-DECT Access Points in hazardous locations. Anyone using our intrinsically safe equipment can freely move in and out of hazardous locations without the hassle of having to change or remove their portable devices.



**Summary of facts**

In the European Union, ATEX directives 94/9/EC and 1999/92/EC specify the requirements for equipment and systems used in potentially explosive atmospheres, and the standards for the safety and health of workers exposed to such environments.

In North America laboratories such as Intertek (ETL), Factory Mutual (FM), Underwriters Laboratories (UL), and the Canadian Standards Association (CSA) test and certify products for use in hazardous locations.

In the rest of the world IECEx certification tends to be in use. The aim of the IECEx International Certification Scheme is to facilitate international trade in electrical equipment intended for use in explosive atmospheres, by eliminating the need for multiple national certifications while maintaining a prudent level of safety.

**Our superior solution**

Ascom leads the market in providing rugged, intrinsically safe portable devices. We're also the only supplier offering a comprehensive combined Ex and non-Ex classified system, with seamless integration between explosion-safe devices and normal devices and networks. With Ascom you can have all the benefits of our IP-DECT solution even at a hazardous site: a scalable, backward-compatible, cost-effective communications system that combines voice and data on the same dedicated and exclusive frequency band.

Simply put, Ascom offers you devices and systems that hold up under the same pressures you do, every day, no matter what environment you're in.

**Ascom Wireless Solutions**

P.O. Box 8783 SE-402 76 Göteborg, Sweden  
T +46 31 55 93 00 | F +46 31 55 20 31  
www.ascom.com