

Swissphone DE920 Ex

Mobile alarming in hazardous areas



The most important performance features

- > the most suitable receiver to use in explosion-risk environments
- > usage within easily ignitable gas-air mixtures
- > intrinsically safe, even in case of a component failure
- > 3-line backlit LC Display with 5mm upper case characters
- > approved according to (Ex) II 2G EEx ib IIC T4

))) The DE920 Ex is approved for use in areas with easily ignitable gas-air mixtures and is thus tailor-made for the needs of the chemical and oil industries. The robust, high-convenience pager is designed especially for people who work in such dangerous surroundings and need to be on call at all times. Even in the most sensitive zones, the pager can be used without risk thanks to its passive RF reception characteristic and protection devices.



DE920 Ex

performance features	DE920 Ex
Frequency bands	VHF 138 - 174 MHz (2m band) UHF 450 - 470 MHz (70cm band) (other frequencies on request)
Channel spacing	12.5 / 20/25 kHz
Sensitivity (best position)	@baudrate 512 bit/s 3.5 µV/m @baudrate 1200 bit/s 3.5 µV/m @baudrate 2400 bit/s 4.0 µV/m
Frequency processing	PLL Programmable with Software Application VHF: +/- 0.5 MHz Adjustment range UHF: +/- 1.0 MHz Adjustment range
Compliance	(Ex) II 2G EEx ib IIC T4
Norms	EN 50014, 50020 (Explosion protection), ETSI EN 300 390, IEC 60068-2-27 (shock), IEC 60069-2-6 (vibration), IEC 60068-2-32 (drop test), IEC 60529:1991 + A1:2000 IP52* *IP54 ensured with leather carry bag LH900 (see Swissphone accessories)
Addresses	32 RIC (128 subaddresses) frame independent
Display	- 3 lines, 16 characters per line - 5mm upper case characters
Alerting	- acoustic > 80dB(A) @30cm distance - 9 alerts/user profiles + 1 extension - vibrator
Messages	- 15 messages of up to 255 characters stored with time and date - up to 2 message folders and automatic storage tray, altogether 4096 characters storable - 128 pre-programmed messages of up to 32 characters
Power management	- Type AAA battery - accurate accumulator/battery status indication - operating time left (regular mode/ECO mode) NiMH rechargeable (1.2V/800mAh) up to 300/360 h
Case (H x W x D)	in mm 78 x 53 x 24 in inch 3.1 x 2.1 x 0.95
Miscellaneous	- supports on-air programming - Option IDEA® 128 bit encrypting

Specifications subject to change

Explanation of code: II 2 G EEx ib IIC T4

II	Device group	All areas except mining (Group I)
2	Device category	for use in zones 1 and 21
G	Area of application	Indicator of atmosphere type (G=gas)
EEx	Europ. Ex-Standard	Certified explosion protection in accordance with standard EN 50014, 50020
ib	Type of protection against ignition	Limited energy level prevents ignition of the atmosphere
IIC	Explosion group	CENELEC reference, highest classification in this explosion group, typical gas: Hydrogen (ignition energy < 60µJ)
T4	Temperature class	Maximum permitted temperature of equipment casing or any component: 135°C