

# 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
- > 3-line backlit LC Display with 5mm upper case characters
- > intrinsically safe, even in case of a component failure
- > approved according to (Ex) II 2G Ex Ib IIC T4

))) The DE920 Ex is approved for use in areas with easily ignitable as-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	Technical data
Frequency bands	VHF band 4m 81 - 88 MHz VHF band 2m 138 - 174 MHz UHF band 70cm 430 - 470 MHz (other frequencies on request)
Channel spacing	12.5 / 20/25 kHz
Sensitivity*: @ baudrate 512 bit/s @ baudrate 1200 bit/s @ baudrate 2400 bit/s *typical value at 2 m UB (best position at „salty man“)	3.0 µV/m 3.5 µV/m 4.0 µV/m
Frequency processing	PLL, Frequenz mit Programmiersoftware einstellbar VHF: +/- 0.5 MHz UHF: +/- 1.0 MHz
Compliants	(Ex) II 2G Ex ib IIC T4
Norms	EN 50014, 50020 (explosion protection) EN 60068-2-27 (shock) EN 60068-2-6 (vibration) EN 60068-2-32 (drop test) EN 60529:1991 + A1:2000 IP52* *IP54 ensured with leather carry bag (see accessories)
Addresses	32 main addresses (RIC), each with 4 subaddresses, frame independent
Display	• 3 lines, 16 characters per line • 5 mm font
Alerting	• acoustique >85 dB(A) @ 30 cm distance • 9 alerts / user profiles + 1 extension • vibrator
Messages	• 15 messages of up to 255 characters • up to 2 message folders and automatic storage tray, altogether 4096 characters storable • 128 fixed texts. 32 characters can be stored
Powermanagement	• type AAA battery • accurate accumulator/battery status indication • operating time left (regular mode/ECO mode) NiMH rechargeable battery (1.2 V/2500 mAh) 410/500 h
Temperature range	-20° C to +55° C
Dimensions	(H x W x D) 78 x 53 x 24 mm
Weight	97 g (incl. battery)
Miscellaneous	• supports Express-Alarm® • supports On-Air-programming • option IDEA® encrypting (128 Bit) • option multi channel (up to 9 channels)
Accessories	• wide range of chargers • Windows based programming software • clip holster • leather carry bag, security chain

Specifications subject to change

Additional information: [www.swissphone.com](http://www.swissphone.com)



## Explanation of code: II 2 G Ex 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)

Ex 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



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