

DE920Ex

Mobile alarming in hazardous areas



The most important performance features

- > Intrinsically safe, approved according to (Ex) II 2G Ex Ib IIC T4
- > 32 RIC, each with 4 subaddresses
- > 9 user profiles plus 1 expansion profile
- > Optional IDEA® 128 bit encryption

))) The DE920Ex offers unprecedented protection for public safety and petro-chemical professionals alike. With ATEX Protection Class II 2G EEx ib IIC T4, the DE920Ex guarantees safe usage in all potentially explosive atmospheres where air and flammable gases mix.

))) The DE920Ex boasts an array of user friendly operational features. Its 3-line back lit LCD with large character set makes reading more efficient, its 3-button operation makes usage effortless, and its robust housing guarantees a long lasting and safe investment. The ECO mode allows users longer independent battery operation, reducing the necessity for frequent recharging. Combining superior protection and outstanding usability, the DE920Ex is the ideal choice for alerting in hazardous areas.

DE920Ex

Performance features	Technical data
Frequency bands (other frequencies on request)	VHF band 4 m 81- 88 MHz VHF band 2 m 138-174 MHz UHF band 70 cm 430-470 MHz
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 on „salty man“)	3.0 µV/m 3.5 µV/m 4.0 µV/m
Frequency processing	PLL, frequency adjustable via programming software VHF: +/- 0.5 MHz UHF: +/- 1.0 MHz
Compliance	(Ex) II 2G Ex ib IIC T4, ETSI EN 300390
Norms	EN 60079-0, 60079-11 (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	- Acoustics > 85 dB(A) @ 30 cm distance - 9 alerts/user profiles + 1 extension - Vibration
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
Power management	- Type AAA battery or alkaline dry cell AA - Accurate accumulator/battery status indication - Operating time left (regular mode/ECO mode): Dry cell alkaline battery (AA, 1.5 V) 900/1100 h NiMH rechargeable battery (AAA, 1.2 V/1000 mAh) 410/500 h
Temperature range	- 20° C to + 55° C with NiMH rechargeable battery - 20° C to + 50° C with alkaline dry cell
Dimensions (H x W x D)	79 x 53 x 24 mm
Weight (incl. battery)	88 g / 94 g (accumulator/dry cell)
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, safety chain

Specifications subject to change

Additional information: www.swissphone.com



Explanation of code: II 2 G Ex ib IIC T4

II	Device group
2	Device category
G	Area of application
Ex	Europ. Ex-Standard
ib	Type of protection against ignition
IIC	Explosion group
T4	Temperature class

All areas except mining (Group I)
For use in zones 1 and 2
Indicator of atmosphere type (G=gas)
Certified explosion protection in accordance with standard EN 50014, 50020
Limited energy level prevents ignition of the atmosphere
CENELEC reference, highest classification in this explosion group, typical gas:
Hydrogen (ignition energy < 60 µJ)
Maximum permitted temperature of equipment casing or any component: 135° C



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