

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

Specifications subject to change

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

## 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<br>(ignition energy < 60µJ) |
| T4  | Temperature class                   | Maximum permitted temperature of equipment casing or any component: 135°C  |

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