s.QUAD ATEX

SWISSPHONE

Alerting in hazardous areas

The sturdy, convenient pager was designed for individuals who work in dangerous environments and have to be reachable at all times. The pager can even be used in the most sensitive zones without risk thanks to its protective measures and because it is passive to radiation. The s.QUAD ATEX fulfils the requirements of the chemical and petrochemical industries.

IDEA™ WPLL eco mode

Key performance features

- Intrinsically safe, ideal choice for alerting in hazardous areas (Approved according to (Ex) II 2G Ex Ib IIC T4)
- Uses in highly flammable gas-air mixtures
- Outstanding reception performance with 2.5 µV/m at 1200 Bit/s
- Programmable receiving frequency within switching bandwith. Wide PLL up to 10 MHz (UHF), 20 MHz (UHF)
- 64 addresses (RICs) with four sub-addresses each (256 individual addresses)
- 64 selection and switching profiles possible
- Alerting volume > 95 dB(A) at 30 cm distance
- Multi-coloured alarm LED
- Five-level display of signal strength (RSSI)
- High-resolution display for over 200 characters per page
- Extremely robust (2-m drop test), and dust and waterproof
- Optional: IDEA™ message encryption (128 bit), Multi-channel and scanner in one device

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	Performance features	Technical data
Standards, compliance, environmental conditions	Standards	ETSI EN 300 390 EN 60068-2-27 (shock) EN 60068-2-6 (vibration) EN 60068-2-32 (2-m drop test) EN 60529 (IP67) EN 60079 (ATEX)
	Compliance	(Ex) II 2G Ex Ib IIC T4
	Temperature range	-20 °C to +55 °C (with battery) -20 °C to +50 °C (with alkaline battery)
Main characteristics	Frequency bands (additional frequencies on request)	VHF 2 m band 138-146/146-155/155-164/164-174 MHz UHF 70 cm band 430-450/450-470 MHz
	Frequency processing	PLL, frequency can be adjusted in the entire frequency band with programming software
	Channel spacing	12.5, 20/25 kHz
	Sensitivity* * typical value at 2 m band (best position on «salty man»)	at 512 Bit/s 2.0 µV/m at 1200 Bit/s 2.5 µV/m at 2400 Bit/s 3.0 µV/m
	Addresses	• 64 primary addresses (RICs) with four sub-addresses each, frame-independent • 256 addresses names with eight characters
	Alerting	• Volume > 95 dB(A) at 30 cm distance • Audio alarm tones • Vibration alarm • Multi-coloured Alarm-LED, seven colours can be individually programmed • Up to 64 user profiles or selectable RICs
	Messages	• Over 100 individual messages with up to 512 characters • 256 fixed texts with 32 storable characters each • Up tp two additional messages folders • PIN-secured message storage
	Supported	• Express-Alarm® • On-Air programming
	Options	• IDEA™ encryption: (128 Bit) • Multi-channel, scanner
Display und housing	Display	• Greyscale display with high resolution (146 x 128 Pixel, 106 DPI) • White backlight • Displays more than 200 characters per page • Different font sizes with 6, 7 or 8 lines • Vertical and horizontal menu and font guidance (programmable) • Scrollable font
	Dimensions (H x W x D)	81 x 64 x 22 mm
	Weight (including battery)	102 g / 108 g (NiMH battery/dry cell)
Connection possibilities	Radio	RFID chip (Protocol: EPCglobal Class1 Gen2)
Power management	Type of battery	NiMH plus battery (AAA) or alkaline dry cell (AA)
	Operating times (eco mode)	• Alkaline dry cell (1.5 V): 2200 h • NiMH plus battery (1.2 V/1000mAh): 1000 h
Accessories	Programming software	Programming frame with Windows-based programming software
	Chargers	• Chargers with relay and antenna connector • Multi-charger
	Carrier bags	Clip holster (included), Leather case, Safety chain

Specifications subject to change

Explanation of code: II 2G Ex ib IIC T4

II	Device group	All areas except mining (Group I)
2	Device category	For use in zones 1 and 2
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
T4	Temperature class	Maximum permitted temperature of equipment casing or any component: 135° C

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