



NEW

Future-proved hybrid alerting

The RES.Q is Swissphone's most innovative alerting terminal. Alerts are received using the time-tested and reliable POCSAG technology. Additionally, cellular networks can be used as a separate alert channel for increased resilience. Cellular technology also enables different forms of feedback:

- **Technical feedback:** The RES.Q sends an acknowledgement to the operations center as soon as it receives an alarm. Alerts can be forwarded to deputies in case no acknowledgement is received in the operations center.
- **Tactical feedback:** The receiver of a message confirms whether he will attend or not. The officer in charge immediately knows the effective personnel strength and can alert additional rescue forces if necessary.
- **The cellular technology** channel can be used to send user availability or to monitor device status.

The **RES.Q XS** is the basic model. It features an internal cellular module to offer technical acknowledgements and tactical confirmations.

The **RES.Q S** offers additional localisation capabilities using an integrated GPS receiver. This makes it possible to locate personnel and determine how far they are from the place of action.

The **RES.Q M** offers the possibility to send an emergency call using an emergency button.

The **RES.Q L** is the top model of the RES.Q series, offering outstanding investment protection with 3G cellular technology and iBeacon indoor localisation.

Key features

-))) Technical and tactical feedback
-))) Sending and receiving status reports
-))) Exceptional POCSAG reception also during mobile radio connectivity
-))) Hybrid alerting reception (POCSAG & cellular technology)
-))) Positioning features
 - Outdoor: GPS
 - Indoor: IBT position transmitter
 - iBeacon (RES.Q L)
-))) Manual alerting via cellular
 - Emergency button with position report
-))) 64 select as well as toggle profiles available
-))) 32 main addresses (RICs) with 4 sub-addresses each (128 individual addresses)
-))) Signal strength indicator (RSSI) for POCSAG & cellular
-))) Option: IDEA™ encryption (128 Bit)
-))) Option: multi-channel, scanner in one device



RES.Q

	Performance features	Technical Data
Standards, compliance and environmental conditions	Standards	ETSI EN 300390 (Radio: Receiver) EN 62368-1 (Safety) EN 62209-2 (SAR) EN 301489-1 /-2 / -17 / -52 (EMC) EN 60068-2-6 (Vibration) EN 60068-2-27 (Shock) EN 60068-2-31 (Drop 1.5 m) EN 60529 IP52* ETSI EN 300328 (Radio: 2.4GHz ISM) ETSI EN 301511 (Radio: cellular) ETSI EN 301908 (Radio: UMTS)
		*IP54 ensured with leather carry bag
POCSAG module	Temperature range	-20 to +55 °C, cellular module (-10 to +55 °C)
	Frequency bands	VHF 2-m band 146-155/155-164/164-174 MHz UHF 70-cm band 430-450/450-470 MHz
	Frequency processing	PLL, frequency adjustable via programming software: <ul style="list-style-type: none"> VHF 2-m band: whole sub-band (9/10 MHz) UHF: ±1.0 MHz
	Channel spacing	12.5, 20/25 kHz
	Sensitivity*: <small>*typical value at 2 m UB (best position on «salty man»)</small>	@ 512 Bit/s 3.0 µV/m @ 1200 Bit/s 3.5 µV/m @ 2400 Bit/s 4.0 µV/m
	Signal strength indicator (RSSI)	5 bar display. More bars means stronger signal
	Cap codes (RIC)	<ul style="list-style-type: none"> 32 cap codes (RIC), with 4 sub-addresses each, frame independent 128 single addresses (any combination of RIC and SubRIC) 128 RIC names with 8 characters
	Alerting	<ul style="list-style-type: none"> Acoustic > 88 dB(A) @ 30 cm distance Vibration Bright display backlight Up to 64 user profiles or selectable RICs
	Messages	<ul style="list-style-type: none"> More than 100 messages of up to 253 characters Up to two additional message folders 128 fixed texts with 32 characters each can be stored PIN secured message storage
	Supports	<ul style="list-style-type: none"> Express-Alarm® On-air programming
Options	<ul style="list-style-type: none"> IDEA™ encryption (128 Bit) Multi-channel, scanner 	
Display and case	Display	<ul style="list-style-type: none"> High resolution display White backlight Font sizes (lines x characters): 3x16, 4x21, 5x21 or 3/4/5 Lines proportional fonts
	Dimensions (H x W x D)	80 x 53 x 24 mm
	Weight (incl. battery)	110 g
Power management	Type of battery	Lithium-polymer rechargeable battery 3.7V / 550 mAh (charger included)
	Operating time	POCSAG only: ~ 600 h POCSAG + data/SMS: ~ 60-80 h (response) POCSAG + data/SMS + GPS: ~ 50-70 h
GPS module	Channels	50
	GNSS-System	GPS
	Sensitivity in tracking mode	-162 dBm
	Time to first fix	Cold: 30 sec, assisted: 3 sec, hot: 1 sec
	Current time and date	UTC synchronization via GNSS
Bluetooth LE module	Standard	Core V4.2
	Supported features	Apple iBeacon (localization)
Sensors	Emergency detection sensors	3-axial acceleration
Accessories	Programming software	PSWplus
	Chargers	LiGRA Expert
	Carrying accessories	<ul style="list-style-type: none"> Leather case Safety chain

Specifications subject to change

EN 11/2017 0342286 V8 WEC



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