Swissphone –
Alerting at its Best

The Swissphone Group is a leading global supplier of the most advanced and reliable alarm and communication solutions. We have always focused on two important characteristics – highest quality and total reliability. Our extremely robust pagers enable digital or analogue alerting, offer one-way or two-way communication in text or voice messages.

s.QUAD X15

-))) Outstanding reception performance
  2.5 µV/m at 1200 baud
-))) 16 RICs (64 individual addresses)
-))) Three selection and switching profiles possible
-))) Alerting volume
  > 95 dB(A) at 30 cm
-))) High-resolution display for more than 200 characters per page
-))) Extremely robust (2-m-drop test), dust- and waterproof

IDEA™

connect

WPLL

eco mode

GLOB

Options
- IDEA™ message encryption

s.QUAD X35

-)) Outstanding reception performance 2.5 µV/m at 1200 baud
-)) 64 RICs (256 individual addresses)
-)) 64 selection and switching profiles possible
-)) Alerting volume > 95 dB(A) in 30 cm
-)) 7 colours alerting LED
-)) 5-level display of signal strength (RSSI)
-)) High-resolution display for more than 200 characters per page
-)) Extremely robust (2-m-drop test), dust- and waterproof

Options
- IDEA™ message encryption
- Multi-channel, scanner

s.QUAD ATEX

-)) Outstanding reception performance 2.5 µV/m at 1200 baud
-)) 64 RICs (256 individual addresses)
-)) 64 selection and switching profiles possible
-)) Alerting volume > 95 dB(A) in 30 cm
-)) 7 colours alerting LED
-)) 5-level display of signal strength (RSSI)
-)) High-resolution display for more than 200 characters per page
-)) Extremely robust (2-m-drop test), dust- and waterproof

Ex certified pager with protection class:
Ex II 2G Ex Ib IIC T4

Options
- IDEA™ message encryption
- Multi-channel, scanner

s.QUAD Voice

- ⟫ Outstanding reception performance 2.5 µV/m
- ⟫ 64 call addresses (2/5/6 tones)
- ⟫ 64 selection and switching profiles possible
- ⟫ Up to 16 minutes voice memory
- ⟫ Alerting volume > 95 dB(A) in 30 cm
- ⟫ 7 colours alert LED 5-level display of signal strength (RSSI)
- ⟫ High-resolution display for more than 200 characters per page
- ⟫ Extremely robust (2-m-drop test), dust- and waterproof

IDEA · **eco mode** · **connect** · **WPLL** · **GLOB**

Options
- Multi-channel, scanner

HURRICANE DUO

- ⟫ Simultaneous playback of the alarm message via loudspeaker and display
- ⟫ User-definable dictionary for any abbreviations
- ⟫ 64 RICs (256 individual addresses)
- ⟫ 64 selection and switching profiles possible
- ⟫ Alerting volume > 90 dB(A) in 30 cm
- ⟫ Text notification: 5 lines in small font size or 4 lines in normal font size
- ⟫ 5-level display of signal strength (RSSI)

IDEA · **eco mode** · **WPLL** · **GLOB**

Options
- IDEA™ message encryption
- Multi-channel, scanner

RES.Q
XS / S / M / L

-)) Excellent reception characteristics (even with active cellular connection)
-)) Emergency call function with positioning
-)) Hybrid alerting (POCSAG & cellular technology)
-)) Positioning features
  Outdoor: GPS
  - iBeacon
  - IBT position transmitter
-)) 32 RICs (128 individual addresses)
-)) 64 selection and switching profiles possible
-)) Signal strength indicator (RSSI) for POCSAG & cellular

IDEA · **hybrid** · **WPLL** · **eco mode** · **GLOB**

Options
- IDEA™ message encryption
- Multi-channel, scanner

s.ONE
An application suite for monitoring and resource management

1 **s.ONE** availability
Real-time information on team availability

2 **s.ONE** monitor
Graphical overview of real time responses and display alerts if the deployment is understaffed

3 **s.ONE** alert
For quick, targeted follow-up alerting with paging, e-mail or SMS

Options

The IDEA™ Encryption Technology employed by Swissphone allows secure transmission of confidential messages. All messages are secured from the dispatcher to the pager (end-to-end) which means that messages can only be read by authorised pagers. The 128-bit protection key delivers one of the highest levels of security currently available.

With the patented Express-Alarm® feature, the dispatcher can compile task group RIC addresses and link the alert texts accordingly. Instead of each RIC address being notified one at a time, the alert text is sent simultaneously to all needed users. Less data allows for faster transmission time.

Hybrid combines the reliability of a paging alert with the benefits of commercial mobile telecommunications networks. The alert message is sent to the pager via paging and SMS/GPRS. Only the fastest of the alert messages is displayed on the pager screen and any other is suppressed.

Wide PLL: The reception frequency can be programmed within a bandwidth of up to 10 MHz.

Bluetooth technology makes it possible to connect the s.QUAD with a compatible smartphone and ultimately with various s.ONE software solutions from Swissphone.

In idle state, the pager is set in a sleep mode and the display is switched off. At all times, the pager remains active and ready to receive alarm signals.

GLOB is a replace text pattern option that allows you to either suppress text or replace it with a fixed text.

An ATEX device 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. This robust, compact pager is ideal for those working in such dangerous environments 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.

Data terminal devices

Features	s.QUAD X15	s.QUAD X35	s.QUAD ATEX	s.QUAD Voice	HURRICANE DUO	RES.Q XS / S / M / L

Description	- POCSAG pager with text display
	- Bluetooth Low Energy
		- POCSAG pager with text display
		- Bluetooth Low Energy
		- 7 colours LED
			- POCSAG pager with text display
			- ATEX proof (II 2G Ex Ib IIC T4),
			  Zone 1&2, highest explosion
			  and gas group (IIC)
				- Analogue pager with voice announcement
				- Bluetooth Low Energy
				- 7 colours LED
				- up to 16 minutes voice memory
					- POCSAG Pager with text display
					- Conversion of text to speech
						- POCSAG Pager with text display
						- Feedback & status report (GPRS, GSM)
						- GPS positioning
						- iBeacon for indoor positioning

Frequency range	138 – 174 MHz / 430 – 470 MHz	138 – 174 MHz / 430 – 470 MHz	138 – 174 MHz / 430 – 470 MHz	138 – 174 MHz / 430 – 470 MHz	146 – 174 MHz / 450 – 470 MHz	146 – 174 MHz / 430 – 470 MHz
Frequency generation	WidePLL (VHF: 10 MHz, UHF: 20 MHz)	WidePLL (VHF: 10 MHz, UHF: 20 MHz)	WidePLL (VHF: 10 MHz, UHF: 20 MHz)	WidePLL (VHF: 10 MHz, UHF: 20 MHz)	WidePLL (VHF: 10 MHz)	WidePLL (FHF: 10 MHz)
Call sensitivity (typical values)	2.5 µV/m at 1,200 baud 2.0 µV/m at 512 Baud	2.5 µV/m at 1,200 baud 2.0 µV/m at 512 Baud	2.5 µV/m at 1,200 baud 2.0 µV/m at 512 baud	2.5 µV/m	3.5 µV/m at 1,200 baud 3.0 µV/m at 512 baud	3.5 µV/m at 1200 baud 3,0 µV/m at 512 baud
Number of RIC / alert addresses	16 × 4 / 64	64 × 4 / 256	64 × 4 / 256	64 alert addresses	64 × 4 / 256	32 × 4 / 128
Address name	•	•	•	•	•	•
User profiles	3 selection and switching profiles possible	64 selection and switching profiles possible	64 selection and switching profiles possible	64 selection and switching profiles possible	64 selection and switching profiles possible	64 selection and switching profiles possible
Message folder	1	3	3	3	3	3

Message storage	- More than 100 individual messages
	  with up to 512 characters
	- 64 fixed texts each of 32 characters
	  can be stored
		- More than 100 individual messages
		  with up to 512 characters
		- 256 fixed texts each of 32 characters
		  can be stored
			- More than 100 individual messages
			  with up to 512 characters
			- 256 fixed texts each of 32 characters
			  can be stored
				- Up to 16 minutes voice memory
				- 256 fixed texts each of 32 characters
				  can be stored
					- More than 100 individual messages
					  with up to 253 characters
					- 128 fixed texts each of 32 characters
					  can be stored
						- More than 100 individual messages
						  with up to 253 characters
						- 128 fixed texts each of 32 characters
						  can be stored

Message comparison and message correction	•	•	•	na	•	•
Alerting	Three levels of volume / vibration / alert LED	Three levels of volume / vibration / 7 colours alert LED	Three levels of volume / vibration / 7 colours alert LED	Three levels of volume / vibration / 7 colours alert LED	Two level volume / vibration / flashing alert LED	Alert tones / volume
Alert tones / volume	16 freely configurable / 95 dB (A) at 30 cm	32 freely configurable / 95 dB(A) at 30 cm / audio	32 freely configurable / 95 dB(A) at 30 cm / audio	32 freely configurable / 95 dB(A) at 30 cm / audio	16 freely configurable / 90 dB (A) at 30 cm	16 freely configurable / 88 dB (A) at 30 cm
Display screen	High-resolution display (146 × 128 pixel) for over 200 characters per page	High-resolution display (146 × 128 pixel) for over 200 characters per page	High-resolution display (146 × 128 pixel) for over 200 characters per page	High-resolution display (146 × 128 pixel, 106 DPI)	Display 4 or 5 lines with up to 11 or 16 signs	Display 3,4 or 5 lines with 16/20 or more characters (proportional font)
Display lighting	LED (white)	LED (white)	LED (white)	LED (white)	LED (white)	LED (white)
Display of signal strength (RSSI)	–	•	•	•	•	for POCSAG & mobile radio
Time and date, alert time with date	•	•	•	•	•	•
Programming data protection with PIN	•	•	•	•	•	•
Message protection with one PIN	•	•	•	•	•	•
Keypad lock / menu lock / power-on PIN	•	•	•	•	•	•
Battery type	NiMH plus battery or alkaline battery (AA)	NiMH plus battery or alkaline battery (AA)	NiMH plus battery (AAA) or alkaline battery (AA)	NiMH plus battery or alkaline battery (AA)	NiMH plus battery or alkaline battery (AA)	Lithium polymer battery
Operation period in hours Battery / NiMH battery	2500 / 2400 (*)	2500 / 2400 (*)	2200 / 1000 (*)	180 / 180 (*)	800 / 800 (*)	400 / with GSM 40 / with GPS and GSM 20 (*)
Battery / battery level indicator	•	•	•	•	•	•
Charging cut-off during battery operation	•	•	•	•	•	no battery operation possible
Dimensions (h × w × d in mm) without clip	81 × 64 × 22	81 × 64 × 22	81 × 64 × 22	81 × 64 × 22	78 × 53 × 24	80 × 53 × 24
Weight including battery (g)	108	108	102 (with NiMH battery), 108 (with akaline battery)	108	110	110
IP degree of protection according to EN 60529	IP67 dust- and waterproof	IP67 dust- and waterproof	IP67 dust- and waterproof	IP67 dust- and waterproof	IP54	IP52 IP54 with protective bag
Express alarm function	•	•	•	na	•	•
128 bit encryption, Time Authentication (option)	DiCal-IDEA (128 Bit)	DiCal-IDEA (128 Bit)	DiCal-IDEA (128 Bit)	–	DiCal-IDEA (128 Bit)	DiCal-IDEA (128 Bit)
Multi-channel (option)	–	8 channels / scanner	8 channels / scanner	64 channels / scanner	8 channels / scanner	8 channels / scanner

(*) depending on the parameter setting

Accessories terminal devices

Charger
RES.Q / HURRICANE

Charger
s.QUAD

Charger
s.QUAD with lamp

Multi charger
s.QUAD

Leather case
s.QUAD

Leather case
RES.Q / Hurricane

Clip
s.QUAD

Diverse clips
RES.Q / HURRICANE

Diverse
safety chains

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