

Ascom a71 Alarm Transceiver and p71 Transceiver

Features

- UHF receiver and transmitter
- Two-way data (option for p71)
- Tone and display messages
- Time-stamped messages (system dependent)
- Stores up to six Info Messages for information that is updated frequently
- Large full graphic LCD display with backlight
- SIM card for identity and personal settings
- Special clip release function
- Vibrator alert
- Intrinsically safe (ATEX/EX) (option)

Only for a71:

- Push-button alarm
- Safety Pull-cord alarm
- Man-down and No-movement alarm (option)
- Warning tone before alarm transmission at Man-down and No-movement alarm to avoid unintentional alarm
- Acoustic two-tone location signal (ALS)
- Location function (IR and/or LF) (option)
- Surveillance (system dependent)



Technical Specifications

Physical

Dimensions (l x w x d):	104 x 62 x 36 mm incl. clip
Weight:	126 g incl. battery
Material:	PC/ABS, TPE
Colour:	Steel Grey Ice Blue
Display (w x h):	142 x 80 DOT Matrix LCD (35 x 24 mm active area)
Clip:	Hinge-type (standard) or swivel-type

Battery

Type:	Li-Ion
Battery operating time:	48 hours (2 days) incl. 4 alarms per 8 hours, Man-down/No-movement alarm and location function or 72 hours (3 days) incl. 4 messages per hour (no alarm or location function).
Charge time:	Approx. 2 hours

Settings

Languages:	11 (Danish, Dutch, English, Finnish, French, German, Italian, Norwegian, Portuguese, Spanish and Swedish)
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Messaging

Message length:	Up to 128 characters per message
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Storage capacity: 20 messages

Audio

Maximum sound pressure level: Approx. 95 dBA at 10 cm

Radio

Frequency range: 420 - 475 MHz

Modulation: FSK

Channel spacing: 6,25/10/12,5/25 kHz

Deviation: 1.5/3.0 kHz

Antenna: Integral

Sensitivity: 10 µV/m at 3 kHz deviation

Radiated power: 20 mW ERP

IR Receiver

IR detection: Max. sensitivity at 950 nm

Carrier frequency IR: 39.7 kHz

Sensitivity IR: 17 m line of sight from IR locator

LF Receiver

Carrier frequency LF: 39.7 kHz

Sensitivity LF: 3 m in free space when the LF locator is set to max. range

Environmental

Operating temperature: -10°C to +55°C

Storage temperature: -20°C to +70°C

Enclosure protection: IP64, IEC EN600529

Immunity to electromagnetic fields: 3V/m EN61000-4-3

Immunity to ESD: 8 kV contact discharge and 16 kV air discharge (EN61000-4-2)

Free fall test: IEC 60068-2-32, procedure 1, dropped 12 times from 1 metre.
Ascom approves drops from 1.5 metres.

Options

Intrinsically safe classification EX II G, EEx ib IIC T4

Location function (IR and LF)

Man-down and No-movement alarm

Two-way data for p71

Accessories

- Leather case
- Swivel type clip
- Name label kit
- Single Charger
- Charging Rack: PCR-M (Master), PCR-E (Extension)

Compliance to European regulations and standards

EU directives:	73/23/EEC(LVD), 89/336/EEC(EMC) and 1999/5/EC (R&TTE)
Product marking:	CE
Radio:	EN300220-1/-3, EN300296-1/-2, EN300224-1/-2 and EN300330-1/-2 (only LF receiver spurious)
Safety:	EN60950-1
EMC:	EN301489-1/-2 and EN301489-3

Compliance to US and Canadian regulations and standards

Product marking:	FCC ID: BXZCHAT, IC:3724B-CHAT
EMC/Radio:	FCC CFR 47 Part 15 and Part 90 (Class B), RSS-119
Safety:	IEC 60950-1

Functions	a71 Basic	a71 Advanced	p71 Basic	p71 Advanced
SIM card	Yes	Yes	Yes	Yes
Vibrator function	Yes	Yes	Yes	Yes
Messaging	Yes	Yes	Yes	Yes
Acknowledge	Yes	Yes	-	Yes
Group messaging	Yes	Yes	Yes	Yes
Data Send	Yes	Yes	-	Yes
Data with prefix	Yes	Yes	-	Yes
Availability information/Absence	Yes	Yes	Yes	Yes
Push-button alarm	Yes	Yes	-	-
Man-down & No-movement alarm	-	Yes	-	-
Pull-cord alarm	Yes	Yes	-	-
Acoustic Location Signal (ALS)	Yes	Yes	-	-
Location function*	-	Yes	-	-
Intrinsically safe (ATEX/EX)	-	Option	Option	-
* System dependent feature				

Specifications are subject to change without notice.