

## 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)<sup>1</sup> (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 × w × d):	104 × 62 × 36 mm incl. clip
Weight:	Approx. 120 g incl. battery
Material:	PC/ABS, TPE
Colour:	Steel Grey Ice Blue
Display (w × h):	142 × 80 DOT Matrix LCD (35 × 24 mm active area)
Clip:	Hinge-type (standard) or swivel-type

#### Battery

Type:	Li-Ion <sup>2</sup>
Battery operating time <sup>3</sup> :	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: 4 kV contact discharge and 8 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<sup>1</sup>

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)

<sup>1</sup> The Ascom explosion protected portable products are approved for gas, vapour and mist explosive environments only. The approvals are valid exclusively for surface industry. Ascom explosion protected portable products shall therefore not be used in combustible dust explosive environment and/or mining (underground) location.

Ascom AB does not support or take responsibility for any change in the product or its designation: II 2 G, EEx ib IIC T4.


<sup>2</sup> Battery charging or replacement of EX-version is not permitted in restricted area.

In combination with EX-version, use approved battery types only, see EC Type Examination Certificate xxxxx and xxxxx and following supplements.

The documents mentioned above and the EC Declaration of Conformity can be found at [www.ascom.com/ws](http://www.ascom.com/ws) and [www.IECEX.com](http://www.IECEX.com)

<sup>3</sup> The ATEX approved battery has half the capacity of the standard battery and therefore the battery times are not applicable for ATEX approved versions.

### 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 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 60950-1s

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.*