

Ascom a51 Alarm Transmitter

Features

- Alarms can be activated by:
 - Two push-buttons for configurable alarms
 - 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) after a Man-down and No-movement alarm
- SIM card for identity and personal settings
- Location function (IR and LF) (option)
- Battery check function
- Special clip release function
- Internal antenna
- Vibrator alert
- Protected name label for own use



Technical Specifications

Physical

Dimensions (l × w × d):	85 × 57 × 33 mm incl. clip
Weight-standard/vibrator:	93 g (basic version) incl. battery
Material:	PC/ABS, TPE
Colour:	Steel Grey, Ice Blue
Clip:	Hinge-type

Battery

Type:	Li-Ion
Battery operating time:	168 hours (7 days) incl. 1 alarm/day (no Man-down/No-movement alarm, no location function)
Discharge/charge cycles:	≥80% capacity left after 400 full charge/discharge cycles.
Storage temperature: ¹	0°C to +20°C. Cool and dry place. Charged to 40% (3.7V). Even when stored under optimal conditions the battery capacity will decrease over time.

Alarm

Types:	Two push-button alarms (normal, soft (configurable)), Test alarm, Battery alarm, Pull-cord alarm, Man-down and No-movement alarm (option)
Location:	Infrared Light (IR) (option) and Low Frequency Magnetic Field (LF) (option)

Audio

Sound pressure level:	Approx. 95 dBA at 10 cm
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1) Note that storing Li-Ion batteries at high temperature dramatically reduces its capacity. For example storage around +60°C reduces capacity with 20% in less than a month, permanently.

Radio

Frequency range:	420 - 475 MHz
Modulation:	FSK
Channel spacing:	12,5/25 kHz
Deviation:	1.5/3.0 kHz
Antenna:	Integral
Radiated power:	20 mW ERP

IR Receiver

IR detection:	Max. sensitivity at 950 nm
Carrier frequency IR:	39.6 kHz
Sensitivity IR:	17 m line of sight from IR locator.

LF Receiver

Carrier frequency LF:	39.6 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: ¹	-20°C to +70°C
Enclosure protection:	IP40, IEC EN600529
Immunity to electro-magnetic 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 1.5 meter

Options

- Location function (IR and LF)
- Man-down and No-movement alarm

Accessories

- Leather case
- Name label kit
- Swivel type clip
- 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 and EN301489-3

Compliance to US and Canadian Regulations and Standards

Product marking:	FCC ID: BXZAMIE, IC:3724B-AMIE
EMC/Radio:	FCC CFR 47 Part 2 and part 90.217 (Class B), RSS-119
Safety:	IEC 60950-1

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Specifications are subject to change without notice.