

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

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|---------------------------|------------------------------------|
| 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

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| Type: | Li-Ion |
| Battery operating time: | 168 hours (7 days) incl. 1 alarm/day (no Man-down/No-movement alarm, no location function) |

Alarm

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|-----------|---|
| 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

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| Sound pressure level: | Approx. 95 dBA at 10 cm |
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Radio

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| 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

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| 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

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| Carrier frequency LF: | 39.6 kHz |
| Sensitivity LF: | 3 m in free space when the LF locator is set to max. range |

Environmental

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| Operating temperature: | -10°C to +55°C |
| Storage temperature: | -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
- 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, EN300296-1, EN300224-1 and EN300330-1 (only LF receiver spurious) |
| Safety: | EN60950-1 |
| EMC: | EN301489-1 and EN301489-3 |

Specifications are subject to change without notice.