

Alarm (applicable to Protector EX only)

Alarm features:	<ul style="list-style-type: none"> Push-button alarm (a dedicated alarm button with the ability to send different alarm types) Man-down and No-movement alarm Pull-cord alarm Acoustic Location Signal (ALS) Automatic call after alarm
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Bluetooth

Bluetooth radio spectrum:	ISM 2.4000–2.4835 GHz
Output power:	Class 2, maximum 3 dBm
Supported version:	5.1
Supported profiles:	Headset and handsfree
BLE beacon protocol:	iBeacon

Radio

Automatic DECT protocol detection:	Automatic detection and configuration for US DECT and EU DECT at first registration
Frequency range:	<ul style="list-style-type: none"> 1880–1900 MHz: Europe, Africa, Middle East, Australia, New Zealand and parts of Asia 1900–1906 MHz: Thailand 1910–1920 MHz: Brazil 1910–1930 MHz: Latin America 1920–1930 MHz: US
Modulation:	GFSK
Channel spacing:	1.728 MHz
Antenna:	2 integral antennas for antenna diversity
Sensitivity:	–93 dBm
Dynamic output power:	<ul style="list-style-type: none"> EU/LA/BR: 10 mW (maximum average power) US: 4 mW (maximum average power)

Specifications are subject to change without notice

DATA SHEET, Ascom d83 EX DECT Handset

Additional Features

List of features:	<p>High quality voice</p> <p>Centralized management</p> <p>Easy access to PBX services</p> <p>Easy replacement of handset</p> <p>Programmable headset button</p> <p>Programmable handset restrictions</p> <p>Site survey tool</p> <p>Customizable sounds</p> <p>Customizable menus</p> <p>Mute button / Sound off key</p> <p>Clear message (not applicable to Talker) and call lists in charger</p> <p>180 degrees rotation of message (not applicable to Talker) and call information</p>
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Accessories

Available accessories:	<p>DC3 Desktop charger</p> <p>CR3 Charging rack</p> <p>DP1 Desktop programmer</p> <p>Battery pack</p> <p>Standard/Swivel-type clip</p> <p>Cover plate (no clip)</p> <p>Carrying case</p> <p>Security string (80 cm)</p> <p>Headset connector plug kit (10 pcs)</p> <p>Pull cord (80 cm)(Applicable to Protector EX only)</p> <p>Screw kit (20pcs + screwdriver)</p> <p>NOTE: Use only accessories that are in line with and certified for the applicable hazardous area.</p>
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Environmental

Operating temperature:	-10°C to +40°C (+14°F to +104°F)
Storage temperature:	-20°C to +60°C (-4°F to +140°F)
	NOTE: 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.
Charging temperature:	+5°C to +40°C (+41°F to +104°F)
Immunity to electromagnetic fields:	10 V/m (EN 61000-4-3)
Immunity to ESD:	8 kV contact discharge and 15 kV air discharge (EN 61000-4-2)
Enclosure protection:	IP65, IP54 for EX approval, IEC EN 60529

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Free fall test:	IEC 60068-2-31, procedure 1, dropped 12 times, specification extended to 2 m IEC 60068-2-31, procedure 2, dropped 1000 times from 0.5 m NOTE: IEC60068-2-31 supersedes IEC60068-2-32 and requirements are equivalent in free fall test.
Chemical resistance test:	3% Hydrochloric Acid M-alcohol (85% methylated ethanol) 60% Chlorhexidin 0.5 mg/ml

Accelerated Life Testing

Multi-purpose connector:	With USB for fast software download, configuration and battery charging
Climate stress:	Handset exposed to quick temperature and humidity changes Temperature: -40°C to +75°C Humidity: 0% to 90%
Drop test:	Handset dropped 30 times from 1.2 m (6 times each loop for 5 loops)
Vibration test:	Handset exposed to 30 Hz vibrations for a duration of 2.5 h
Chemical stress:	Handset exposed to Oleic Acid
Keypad actuation test:	Keys pressed 15 000 times with a force of 13 N
Squeeze test:	Handset squeezed 1 000 times with a force of 130 N

Use in Potential Explosive Atmosphere




The product has been designed using the protection type intrinsic safety (ib) and the approvals are valid exclusively for surface industry. The handsets shall therefore not be used in mining (underground location) or surface parts of such mines endangered by firedamp and/or combustible dust. Ascom (Sweden) AB does not support or take responsibility of any change in the product or its designation. Battery charging or replacement is not permitted in hazardous area.

SPECIAL CONDITION OF USE

The **X** placed after the ATEX, UKCA and CSA numbers indicates that DP1 only to be used with a SELV/PELV 60950 or 62368 compliant device with Um 5.25V.

Headset in Hazardous Area

Only Bluetooth headsets fulfilling the site requirements are allowed.

 0470 CSANe 22ATEX1023X	II 2GD Ex ib IIC T4 Gb EX ib IIIC T135°C Db IP54 Tamb = -10°C to +40°C
 8501 CSAE 22UKEX1065X	
IECEx CSAE 22.0014X	
 22CA80089371X	Class I Zone 1 AEx ib IIC T4 Gb Class I Zone 21 AEx ib IIIC T135°C Db Tamb = -10°C to +40°C

Ex type approvals and Declarations of Conformity can be found at www.ascom-ws.com/doc/

IECEx certificates can also be found at www.iecex-certs.com

Specifications are subject to change without notice

Compliance to Regulations and Standards

Bluetooth marking:



Compliance to European and UK Regulations and Standards

EU directives and regulations:

2014/53/EU (RED)
 2014/34/EU (ATEX)
 2015/863 (RoHS3) amending directive 2011/65/EU
 2012/19/EU (WEEE)
 94/62/EC with amendment 2015/720 (Packaging and packaging waste)
 2006/66/EC (Battery Directive)
 Regulation 1907/2006 (REACH)

UK directives and regulations:

Radio Equipment Regulations 2017
 Equipment and Protective Systems Intended for use in Potentially Explosive Atmospheres Regulations 2016
 RoHS in Electrical and Electronic Equipment Regulations 2012
 Reach Enforcement Regulations 2008
 Batteries Packaging (essential requirements) Regulations 2015 and Accumulators (placing on the market) Regulations 2008 and Waste Batteries and Accumulators Regulations 2009
 Waste Electrical and Electronic Equipment Regulations 2013

Product marking:



IP65, IP54 for EX approval

Radio:

EN 301406, TBR22

ATEX/UKEX:

EN 60079-0, EN 60079-11

Bluetooth:

EN 300328, EN 301489-17

SAR (Specific Absorption Rate):

EN 50360, 0.074 W/kg (10 gram) and EN 50566, 0.084 W/kg (10 gram)

Safety:

EN 62368-1

EMC:

EN 301489-6, EN 301489-1

Compliance to US Regulations and Standards

Product marking:



FCC ID: BXZDH8

HAC

IP65, IP54 for EX approval

EX:


IEC 60079-0, IEC 60079-11

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SAR (Specific Absorption Rate):	FCC 47 CFR § 2.1093 (d) and IEEE Std. 1528 Body Worn 0.191 W/kg (1 gram) (DECT + BT + BLE) Left Head 0.178 W/kg (1 gram) (DECT + BT + BLE)
Safety:	UL 62368-1
EMC/Radio:	FCC Part 15 D, FCC Part 15 C (Bluetooth) and FCC Part 15 B
Hearing aid:	47 CFR Part 68

Compliance to Canadian Regulations and Standards

Product marking:	 C US IC: 3724B-DH8 IP65, IP54 for EX approval
SAR (Specific Absorption Rate):	RSS-102, Issue 5 Body Worn 0.191 W/kg (1 gram) (DECT + BT + BLE) Left Head 0.178 W/kg (1 gram) (DECT + BT + BLE)
Safety:	CAN/CSA-C22.2 NO. 62368-1
EMC/Radio:	RSS-213 and RSS-247 (Bluetooth)
Hearing aid:	CS-03 Part V, Issue 9, Amendment 1

Compliance to Australian and New Zealand Regulations and Standards

Product marking:	 R-NZ IP65, IP54 for EX approval
SAR (Specific Absorption Rate):	EN 50360, 0.074 W/kg (10 gram) and EN 50566, 0.084 W/kg (10 gram)
Safety:	AS/NZS 62368-1
EMC/Radio:	Radiocommunications Act 1992 Telecommunications Act 1997
Audio:	AS/CA S004
Bluetooth:	EN 300328, EN 301489-17

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