

DA1450 Pendant



DECT cordless phone

Home Emergency Call

Fall Detection Alarm

Room Monitoring

Comfort telephony with hands-free

Seniors' phone with easy operation

Blind's phone with voice assistant

Clock function, time announcement

Smoke Alarm detectors

Memories, Memos

DATABLATT

Technical Specification

updated data sheet can be found on the product website

GENERAL DATA

Dimensions (L*W*T)	70*42*14 [mm]
Weight	45g
Operating temperature	+5° to 45° Celsius
Storage temperature	-15° to 55° Celsius
Protection class	non-condensing splash-proof IP6x
mechanical load	up to 2m drop height
enclosure	High gloss plastic white
	Sealing rubber in grey
Necklace	textile 80cm / length customizable
Call button	centrally with LED and vibration
Side keys	waterproof incorporated
LED Indicators	shine-through LED
	brightness adjustable
Ring LED	operating indicators
Status LED	status indicator
Loudspeaker	miniature with high sound level
Microphone	all-around characteristics
USB (Configuration)	Micro USB
Battery	Li-Ion-Polymer 450mAh
Standby	type 72h
Standard operation	type 48h
contactless loading	Qi Standard

Radio

DECT ETSI Standard CI	ETS 300 175
DECT ETSI Standard GAP	EN 300 444
DECT GAP EU, US	Auto Detect
Operation in Europe, USA	Auto Mode
Range	type 50m inside building
	type 300m outdoors
DECT Chipset	DCX79 (DSPG)
DECT Handset Stack (PP)	DOSCH&AMAND
Hands-free phone	with high audio quality
Compatibility	of all DECT GAP base stations
Registration	Plug & Play via "easy subscription"
PIN base individually	up to 8 digits via PC APP

FALL DETECTION

Configuration	none
Calibration	automatically
	Immediately ready for operation
Characteristic extraction	DPDM
DPDM Algorithm	"Dosch Probability Density Model"
Sturzanalyse	within 1.25 seconds
Crash message	delayed to 5 seconds
	automatic help and emergency call sequence
Call for	help 3 help numbers + 1 emergency number
iVA	integrated voice assistant
Announcement	Message, Person, Address, Access
Product on floor	adjustable ON/OFF
False alarm rate (all use cases)	type <2%
	with negative confirmation 0%
False alarm "Product on floor"	type <0.5%
Fall Detection (all use cases)	type >85%
	slight falls type >75%
	heavy falls type >95%
3D/6D Accelerometer	LIS3DH
Power Consumption - idle state -	2µA



Control Elements



Charging disc according to Qi Standard contactless loading



"easy subscription" at the push of a button
Registration at the in-house base station:
e.g. Fritzbox, Speedport, Gigaset, Panasonic, Philips



Fall detection via DPDM method
False alarm rate type <2%
Fall detection type >85%

HOUSE EMERGENCY CALL

manual help call key press > 2sec
 at mehrfach kurz drückenwith iVA announcement
 immediately
 Cancellation of button press

Help numbers (with iCM) 3
 Name and phone number
 Friends, Family, Neighbors
 Repetitions adjustable 0-99
 Announcement of the selected contact named iVA
 Election process secured by iCM
 Detecting invalid call attempts iCM
 iCM intelligent Call Manager

Emergency number (without iCM) 1
 professionalhelp, service call center

automatic call for help Fall and smoke alarm

Help numbers 3
 Name and phone number
 Contacts with emergency aid (neighbour, caretaker)
 Repetitions at the factory 0
 Announcement of the selected contact named iVA
 Election process secured by iCM
 Detecting invalid call attempts iCM
 Emergency number (without iCM) 1
 professional help or call center

Telephony

Phone book, number of entries 100
 Phone number with name PC APP
 Conversion name to audio signal T2A encoder
 T2A Text-to-Audio
 Announcement Name with iVA
 incoming call with announcement *1) "Susanne calls"
 Auto acceptance *1) adjustable per number
 *1) only for base station with CLIP function

Activate phone book via side key
 Turn off your phone book automatically

TELEFONBÜCHER (Register)

Number of telephone registers 10
 Number of contacts per register 10
 Title of telephone registers freely definable
 Enter personal titles PC APP
 Title Telephone Register Announcement via iVA

Example-free definable titles

Telephone register 1 "Doctor and Pharmacy"
 Phone Register 2 "Friends"
 Telephone register 3 "Eating and Drinking"
 Telephone register 4 "Family"
 Telephone register 5 "Transport"

.....
 Telephone register Selection via title (read out)

Missed calls 10, self-organizing
 Caller list 10, self-organizing



Anrufsequenz	Name	Telefonnummer	Prüfen
1	Nachbar Max	57665	Anrufen
2	Susanne	0882 445444	Anrufen
3	Werner	0178 665 665	Anrufen
Wiederholung	1		
Anwahlzeit (sec)	15		
Dr Armbruch	667665	Anrufen	

USB: Gerät verbunden Übernehmen Exit

Emergency call list
 manual and automatic (fall, smoke alarm)
 3 Cries for help (friends, family, neighbors)
 1 emergency call (professional help, call center)



Activate phone book with a side key
 automatic deactivation in case of missing follow-up action

Register Name	Einträge bearbeiten
Familie	0
Freunde	0
Essen & Trinken	0
Arzt	0
Transport	0
Register 6	
Register 7	
Register 8	
Register 9	
Register 10	

USB: Gerät verbunden

Name	Telefonnummer	Prüfen
Hans	0117 663 664	Anrufen
Maria	0173 445 444	Anrufen
Susanne	08812 953 221	Anrufen
Name 4	Telefonnummer 4	Anrufen
Name 5	Telefonnummer 5	Anrufen
Name 6	Telefonnummer 6	Anrufen
Name 7	Telefonnummer 7	Anrufen
Name 8	Telefonnummer 8	Anrufen
Name 9	Telefonnummer 9	Anrufen
Name 10	Telefonnummer 10	Anrufen

USB: Gerät verbunden Übernehmen Zurück

Phone book 10 registers
 Register 10 contacts
 individually titled

TELEPHONE CONTACTS

Number of entries per telephone register	10
Enter number with name	PC APP
Name Phone Contact	Announcement via iVA
Telephone contact selection scroll/select	by name (read out) via other side button
Number of phone contacts	100 read aloud by name
Selection Contact: Time spent blind	type < 15sec

CALLING with voice assistant

incoming call with announcement "Susanne calls"
Auto acceptance adjustable per number

outgoing call with the name "Call Lars?"
"Press the call button"

CALLING with 100 contacts

Phone Contact Selection	2 Methods
Method 1	Quick dial via side button
Method 2	Reading phone contacts

CALLING with Method 1

suitable for life-blind speed dial type 10 sec
suitable for in-house telephone comfort-free

Press a side buttonRegister au sselectn
Press other side keySelectname
Press call button trigger call

CALLING with Method 2

suitable for age-blind phone contacts read aloud
suitable for persons with severe disabilities

Press the call button Start reading aloud
Warten to desired name is read aloud
Press call button trigger call
Stop the process Call key 2 sec press



"Susanne calls"
"Werner is called"

**Memories**

Number of entries per day	5
Field of application	Daily Recurring Memos
Entering time and instruction	PC APP
Conversion instruction to audio signal	T2A encoder
T2A	Text-to-Audio
Announcement time and instruction	with iVA
System time	24h format
Setting	automatically via PC APP
	Remote programming
Announcement review at occupied	Spooler 15min



up to 5 reminders per day
"10 o'clock" "Please take medication"

SMOKE ALARM DETECTION

Configuration	none
	Immediately ready for operation
compatible with	<u>all</u> smoke/heat detectors
Activation	on charger
Audio Analysis	SWEEP Comb Filter
Detection rate	type >99%
False alarm	type <0.1%
Alarm progression	situational

automatic helper

Help numbers 3

Name and phone number

Contacts with emergency aid (neighbour, caretaker)

Repetitions at the factory 0

Announcement: Smoke alarm, address, access iVA

Election process secured by iCM

Detecting invalid call attempts iCM

Emergency number (without iCM) 1

professional help or call center

Remote programming

Setting parameters	of external call
Parameter input	keyboard phone
	Procedure DTMF

Set time Header = TIME

Waiting time Read aloud Set Header = READ

Format #HEADER value

Time Value

#ZEIT

hh= 00 ... 24

mm= 00 ... 59

Waiting time Value #LESEN

x

fast = 1 second X = 1

slow = 2 seconds X = 2

iCM intelligent CALL MANAGER

Call analyzer for all help numbers

Targets Detecting Invalid Connections

Perform automatic call sequences safely

Recognition of occupied tone

safe exit call by occupied tone

invalid connections as of 2021

Mobile phone out of reach

not switched on

Answering machine

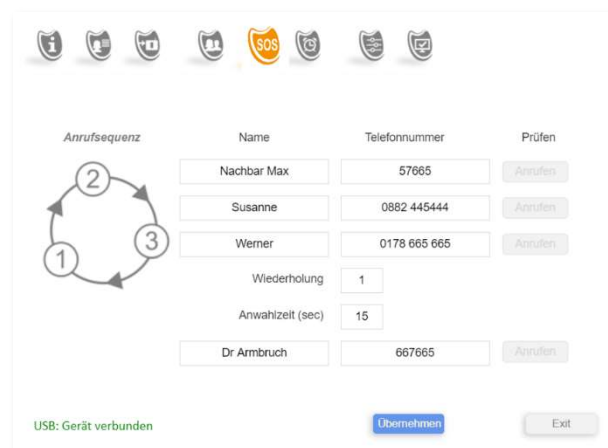
all phones answering machine without ringtone

Call call with call duration <2 seconds

Dialing time longer than set call duration



The alarm of
Smoke. , Heat, Carbon Monoxide Detector
is automatically reported via help call list



Securing the sequence of drains in case of fall and
smoke alarm

Detecting invalid connections

PC APP

compatible with WIN7/WIN10
Included in delivery on USB stick
Data storage/data backup locally on USB Stick
Operation without expertise

Voice selection PC APP automatically
Available languages (as of June 2019) 7
German * Turkish
English * French * Holländisch * Spanish * Italian

System aids

System time automatically over PC time
Version Software Stand
anreported base station RFPI number
Upgrade device software
Registration base station PIN up to 8 digits
Unsubscribe Base Station
Reset (RESET 1) factory setting
Reset (RESET 2) complete / everything

personal settings

personal data Name, place of residence, access
Phone book 10 numbers with names
Call for help Call Sequence + Repetition
Reminders Time + Statement
Enter the time announcement time

Audio Settings

iVA voice assistant ready to use
Available languages (as of June 2019) 7
German * Turkish
English * French * Holländisch * Spanish * Italian
more on request
Volume in 5 levels, factory: medium
Call tone 5 polyphonic melodies, factory: Old Style
Volume in 5 levels, factory: medium
Phone call volume in 5 stages, factory: medium



local PC APP via USB to WIN PC

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USB: Gerät verbunden Übernehmen Exit

Configuration sheet: Call for help

Zeit	Hinweise	Ein
10:00	Guten Morgen	<input checked="" type="checkbox"/>
12:00	Hinweis 2	<input checked="" type="checkbox"/>
18:00	bitte Tabletten nehmen	<input checked="" type="checkbox"/>
20:00	Hinweis 4	<input checked="" type="checkbox"/>
00:00	Hinweis 5	<input type="checkbox"/>
System Zeit	14:21	Auto <input checked="" type="checkbox"/>

USB: Gerät verbunden Übernehmen Exit

Configuration Sheet: Reminders

IVA integrated SPRACHASSISTENT

Available languages (as of June2019)	8
	German * Turkish * English * French
	Holländisch * Spanish * Italian * Portuguese
other languages	on request
	or via support page Product
Use in the product, among others	
Sign up base station	positive message
	Negative message with indication cause
personal data	name, address, access
	Announcement for automatic calls
Phone book	announcement name of the caller
	Selection Contact with namen
Call for help	Announcement of selected contacts and status
Situation message	to called contact
	for automatic calls for help
Reminder	Announcement Time and Instruction
	fixed time announcements
Time	of spontaneous time announcement on request
Error messages	for all operating states
Warnings	battery charge status and radio range
situational recommendations	for fall events

Commissioning

Prerequisite	operational DECT base station
Plug & Play	up and running in 2 steps
1. Press the anmungbase	call button
2. Control call	ringing, call acceptance
automatic takeover	1st call
in phone book	instead of No 10
for all emergency number	manual, fall, smoke
personal configuration via	PC APP
Prerequisite	WIN 64 bit
Remote configuration	on request

PRODUCT LABELLING

Product class	DECT home emergency call
	with fall detector
Type	DA1450
Name	DECT Pendant
Item number	1450.1000.00
Serial number	PMID
CE about Notified Body	NB 700
DECT Module	DA1253-type DOSCH&AMAND
WEEE (disposal)	DE 23 684 005
Taric Code (Customs Code Product)	85171200

DELIVERABLES

Basic unit	DA1450
Charging Battery	Qi Charging Disc
Connection to charging disk and PC	USB cable
Power supply charging disk	USB plug-
PC APP	Download Internet on WIN 64bit
Application	shoulder strap textile
Commissioning	Quick Start Guide



not included :

DECT base station	any DECT base station
	in-house telephone system
EN 300 444	according to DECT GAP Standard
such as. Fritzbox, Speedport, Gigaset, Panasonic, Philips	

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