

# M85

Ruggedized DECT handset



## M85



### Professional DECT telephony

The M85 DECT handset is easily configurable for the flexible and scalable M700 multicell solution with seamless handover as well as for the M300 single-cell base station. It is ideally suited for professional indoor and outdoor use and in hard-hat or industrial areas. The M85 also boasts modern alarm features designed to increase safety in the workplace.

### Alarm functions

The M85 can be used to send and receive alarms. It sends different alarms in the event of an emergency. These alarms can be triggered manually by pressing the alarm key, for example, or automatically.

### Push-button alarm

Programmable alarm key: the Snom M85 features a freely programmable alarm key. Depending on how it is programmed, pressing this key may send a message or place an automatic emergency call to a desired number. (Footnote: messages are sent and received via compatible alarm servers)

### Key Features

- Robust DECT handset with IP65 protection rating
- Features a range of alarms designed to increase safety in the workplace: push-button alarm, no-movement alarm, man-down alarm and pull-cord alarm
- Shockproof, waterproof and dustproof
- Perfect for outdoor use
- Bluetooth
- 3.5 mm jack

### Dead man's feature: no-movement and man-down alarm

Thanks to integrated position sensors, the Snom M85 has what's known as a dead man's feature. If the handset registers an unusual position of the operator or an extended period of motionlessness when laid down, it sends an emergency message if programmed to do so, in order to assist an unconscious employee, for example.

### Pull-cord alarm

In addition to sensors, the Snom M85 also has an optional wrist loop attached to the phone that triggers an automatic alarm or emergency call if it is ripped from the handset.

### Convenient features

When the M85 is used with an M700<sup>(1)</sup> or M300<sup>(2)</sup> base station you enjoy many phone system features such as voicemail, automatic call forwarding, call lists, caller identification, or direct search in the corporate directory.

## Hardware Specifications

### Handset

- Weight: approx. 175 g (handset with battery)
- Dimensions: approx. 152x48x28 mm (LxWxD)
- Connector: 3.5 mm standard phone jack for wired headsets
- Antenna diversity (two internal omni-directional antennas for better transmission and reception)
- Hearing-aid compatible (HAC)

### Battery <sup>(3)</sup>

- Type: Lithium-ion, 1100 mAh, 3.7 V, 4.1 W
- Talk time WB: Up to 12 hours
- Talk time NB: Up to 17 hours
- Standby time: Approx. 200 hours (8 days)
- Charging time: Up to 8 hours from empty

### Charger

- Input: 5.5 V DC, 600 mA
- Connector: 5.5 mm DC jack
- Charging indicator: Blue LED - light is on when handset is charging in cradle

### Power Adapter

- Input power: 100-240 AC Volt, 50/60 Hz, 250 mA
- Output power: 5.5 V DC, 600 mA
- Plug: Patented interchangeable clips. EU and US clips included, UK clip available optionally <sup>(4)</sup>

### Range

- Indoors: Up to 50 meters
- Outdoors: Up to 300 meters

### DECT

- Frequency bands:
  - 1880-1900 MHz (EU)
  - 1910-1930 MHz (Latin America)
  - 1920-1930 MHz (US)
- Output power: EU < 250 mW, USA < 140 mW
- Protocols: DECT, DECT 6.0, CAT-iq1.0 (wideband)
- NOTE: No backward compatibility to GAP!
- Wideband voice
- Authentication/encryption of base and handset

## Standards Conformance

- EN 301406 (TBR6)
- EN 30176 - 2 (TBR10)
- EN 60950 - 1 (Safety)
- IEC60950 -1
- CSA c-CSA-us / UL60950 - 1
- EN 301489 (EMC, ESD)
- RF (EMF, SAR)
- FCC part 15D, conducted & radiated
- FCC part 15B
- RSS213
- TIA 1083, FCC part 68/CS-03 part V (HAC compliance)

## User Interface

- Display:
  - 5 cm (2") diagonal
  - 176 x 220 pixels
  - 262k TFT color LCD with backlight
  - 8 lines, height 16 pixels/line, 16 characters per line: 1 status line, 6 lines for menus or context area, 1 context-sensitive function key line
- Backlit keypad with 24 keys:
  - Standard ITU telephone keypad, 12 keys, 4x3, with star and pound/hash key
  - Three context-sensitive function keys
  - 5 navigation keys (left, right, up, down, OK)
  - Off-hook key, cancel key
  - Menu key
- Three side keys (volume up/down, mute)
- Comfortable and intuitive menu structure
- Selection of ring tones
- Multicolor LED indication of missed calls/new voice messages, low battery
- Speakerphone
- Mute microphone

## Menu Languages

- English, German, French, Italian, Spanish, Dutch, Portuguese, Swedish, Turkish, Danish, Norwegian, Polish

**Phone functions with M300/M700 base station**

- Two simultaneous calls
- Directory with 100 contact entries
- Central directory (common local directory on base station or external directory via LDAP)
- 8 speed dial numbers (number keys 2 - 9)
- Caller identification (CLIP)
- Redial (via dialed calls list)
- Call waiting
- Auto answer
- Call lists (all calls, missed, received, dialed calls), 50 entries total
- Hold
- Call swapping (active call and call on hold)
- Blind and attended transfer
- Call forwarding
- 3-way conference on the phone
- DND mode (do not disturb)
- Hide own outgoing ID (CLIR)
- Missed call notification
- MWI - Voice message waiting notification

**Codecs, Audio**

- Codec negotiation
- CAT-iq wideband audio  
G.722, G.726, G.711

**Installation**

- Automatic registration to extension set on base
- Software update: Over the air via M700 or M300 base station
- Date and time synchronization from base station

**Compatible base stations**

- <sup>(1)</sup> M700 DECT Single-Cell/Multicell Base Station,  
Snom PN 00003928 (EU),  
00003929 (US)
- <sup>(2)</sup> M300 Single-Cell Base Station, available in M325 Bundle with one M25 Handset  
Snom PN 00003955 (EU),  
00003954 (US)  
00004161 (AU)
- M300 Single-Cell Base Station  
Snom PN 00003986 (EU)

**Battery**

- <sup>(3)</sup> Included: Li-Ion battery, model RTR001F01,  
snom PN 00003932

**Accessories**

- <sup>(4)</sup> 00003931 UK clip for power supply
- 00004341 Monaural Headset Snom A100M
- 00004342 Binaural Headset Snom A100D