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<th>Approved by</th>
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<td>09.10.2014</td>
<td>Release p/n 19182</td>
<td>ASK</td>
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SERVICE AND WARRANTY

Warranty time: 2 years from factory.
All goods sold by Jotron AS are warranted to be free from defect in workmanship and material for the period of twenty-four (24) months from the date of delivery (unless stated otherwise and confirmed in writing) PROVIDED:

(a) Jotron AS is given full particulars in writing of any claim prior to the expiration of such a period and within fourteen days of the discovery of the alleged defect.
(b) The product/s have been stored, maintained or used according to manual/s and specification/s
(c) Liability shall be limited at Jotron AS’ options to replacement or repair or to a sum not exceeding the net invoice value of the defective goods.
(d) Upon request the alleged faulty goods are returned to Jotron AS at the Buyer’s expense.
(e) Unless expressly stipulated in the acceptance of the order Jotron AS gives no warranty or guarantee of the fitness or suitability of the goods for any purpose whether disclosed or otherwise.
(f) All other warranties or conditions expressed or implied are hereby excluded and Jotron AS shall in no circumstances be liable for consequential damages.

UTILIZATION:

This equipment is not to be disposed in normal waste, but be handled in accordance with applicable waste disposal regulations in the country where the equipment is used.
LINE CONNECTION TO DICS EXCHANGE 610X = 2 CENTER CORES
- RED / GREEN
- R1 / T1
- 3 / 4

ESPECIALLY IMPORTANT:
- THE CABLES MUST BE:
  - COMMON OUTER SCREENED
  - INDIVIDUALLY TWISTED PAIRS.
  - RECOMMENDED CONDUCTOR SIZE IS 0.75 mm²
- THE CABLEING FOR THIS SYSTEM MUST BE A SEPARATE NETWORK.
- DO NOT COMBINE DIFFERENT SYSTEMS IN THE SAME CABLE. THIS TO PREVENT DISTURBANCE AND NOISE CAUSED BY INTERFERENCE.
- THE MAIN JUNCTION BOX MUST BE LOCATED AS CLOSE TO THE MASTER STATION AS POSSIBLE.

TITLE: DICS 6110, ACCOMMODATION UNIT, EXTERNAL CONNECTION.

PHONETECH
NOTES:

CABLE REQUIREMENTS:
TWISTED PAIR WITH OUTER SCREEN.
RECOMMENDED CONDUCTOR AREA ALL CABLE TYPES: 0.75 sq.mm.
DO NOT COMBINE SIGNAL CABLES WITH OTHER CABLE TYPES SUCH AS MAIN SUPPLY.
THE CABLE FOR THIS SYSTEM SHOULD BE A SEPARATE NETWORK.
DICS 6113 FLUSHMOUNTING UNIT
 wo. BACKLIGHT

CONNECTION TO
DICS EXCHANGE
610X

28 LINE
29 +24 V DC
30 SCREEN / GND

EXTERNAL LOUDSPEAKER
9 SCREEN / GND
10 GND
11 GND

LOUDSPEAKER
Typ. 20 Ohms
Max. 15W

R65
PRESERV LEVEL FOR
THE EXTERNAL LOUDSPEAKER

S1
NOTE 1

SIGNAL DEVICE POWER SUPPLY
24VDC / 110VAC / 230VAC
MAX 5A

INTERNAL CONNECTION:
1 (+)
2 (+)
3 NOT IN USE
4 NOT IN USE
5 NOT IN USE

ALTERNATIVE CONNECTION:

INTERNAL CONNECTION:
1 NO
2 NOT IN USE
3 COMM
4 NOT IN USE
5 NOT IN USE

GENERAL SENSOR SYSTEM

NOTE 1:
SW 1 OFF = HOOKSWITCH DETECTION ENABLE
SW 2-4 EXTERNAL MIC. SENSITIVITY ADJUSTMENT:

<table>
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<tr>
<td>ON</td>
<td>ON</td>
<td>ON</td>
</tr>
<tr>
<td>ON</td>
<td>OFF</td>
<td>OFF</td>
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<td>OFF</td>
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ON ON OFF -3 dB
ON OFF ON -6 dB
OFF ON OFF -9 dB
OFF OFF ON -12 dB
OFF OFF OFF -15 dB

24 VDC POWER SUPPLY
FOR EXTERNAL LOUD-
SPEAKER AND RELAY

P4
6 +24 V DC
7 0 V
8 SCREEN / GND

NOTES:

CABLE REQUIREMENTS:
TWISTED PAIR WITH OUTER SCREEN.
RECOMMENDED CONDUCTOR AREA ALL
CABLE TYPES: 0.75 sq.mm.
DO NOT COMBINE SIGNAL CABLES WITH
OTHER CABLE TYPES SUCH AS MAIN
SUPPLY.
THE CABLES FOR THIS SYSTEM SHOULD
BE A SEPARATE NETWORK.
NOTES:

CABLE REQUIREMENTS:
TWISTED PAIR WITH OUTER SCREEN,
RECOMMENDED CONDUCTOR AREA ALL
CABLE TYPES: 0.75 sq.mm.
DO NOT COMBINE SIGNAL CABLES WITH
OTHER CABLE TYPES SUCH AS MAIN
SUPPLY.
THE CABLING FOR THIS SYSTEM SHOULD
BE A SEPARATE NETWORK.

HANDBOOK page 17/59

DIAGRAM:

DICS 6114 WP PORTABLE UNIT

9011, PLUGBOX

PLUG

10m

CONNECTION TO
DICS EXCHANGE
610 X

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specification and design without notice.

PHONTECH

98003-022-EC

98003-022-EC.DWG
EQUIPMENT DATA:

MANUFACTURER: JOTRON PHONETECH AS.
MODEL/TYP: PLUGBOX.
RACK/BOX SUPPL. : JOTRON PHONETECH AS.
RACK/BOX TYPE: NA.
MATERIAL: PC/ABS BLEND, ABS.
COLOUR: RAL 9005/NATUR.
WEIGHT OF UNIT: 0.3Kg.
MOUNTING: TO WALL.

FIXING DETAILS: SEE INSIDE BOX.
ACCESS: FRONT.
CABLE ENTRY: BOTTOM.
PROTECTION IP: IP-56.
POWER SUPPLY: FROM CENTRAL.
POWER CONSUMP.: NA.
HEAT DISSIPATION: NA.

DIMENSION FOR MOUNTING UNIT TO WALL: 117.00

TITLE: 9011, ABS – PLUGBOX.
MECHANICAL LAYOUT.
9011

TERMINALS
1 2 3 4

PLUG

1 2 3 4

GENERAL PURPOSE

HEADSET / MICROPHONE

MICROPHONE

EARPHONE

9011

TERMINALS
1 2 3 4

PLUG

1 2 3 4

LINE

SCREEN

NC

DICS 6114

TITLE: 9011, ABS – PLUGBOX WEATHERPROOF

EXTERNAL CONNECTION

REVIEW:

DVM COMPLETION

DEVELOPMENT.

FILE NAME: 09908-005-EC.DWG

PHONETECH
NOTES:

CABLE REQUIREMENTS:
- TWISTED PAIR WITH OUTER SCREEN.
- RECOMMENDED CONDUCTOR AREA ALL CABLE TYPES: 0.75 sq.mm.

DO NOT COMBINE SIGNAL CABLES WITH OTHER CABLE TYPES SUCH AS MAIN SUPPLY.
- THE CABLES FOR THIS SYSTEM SHOULD BE A SEPARATE NETWORK.
EQUIPMENT DATA:

MANUFACTURER: PHONTECH AS.
MODEL/TYPE: DICS 6124.
RACK/BOX SUPPL.: BOLPA.
RACK/BOX TYPE: ARTEB 885.
MATERIAL: ABS.
COLOUR: RAL 7038.
WEIGHT OF UNIT: 1,50kg.
MOUNTING: TO WALL.

FIXING DETAILS: 4pcs. M4 BOLT.
ACCESS: BOTTOM.
CABLE ENTRY: BOTTOM.
GLAND TYPE: PG-11.
PROTECTION IP: IP-05.
POWER SUPPLY: FROM CENTRAL.
POWER CONSUMP.: NA.
HEAT DISSIPATION: NA.

TITLE: DICS 6124 - VERSION 05827.
WP BULKHEAD UNIT.
MECHANICAL LAYOUT.
The IP telephone with the latest VoIP technology for the discerning caller! Ideal for ITSPs, offices, and private users.

As the basic model of the snom business telephone family, the SIP telephone snom 300 fulfills the requirements of VoIP telephony and additionally offers numerous functions that are indispensable for everyday working life. Due to its excellent cost-performance ratio, it is ideal both for ITSP packages/products and for small and medium-sized enterprises, home offices, and private users.

The snom 300 sets new standards when it comes to user-friendliness: A two-line LCD display shows call information, and the menu-driven user interface provides simple feature management.

The snom 300 is synonymous with effectiveness, time saving and flexibility: It provides all necessary office functionalities, for example choice of outgoing identity, “busy” indication, or picking up calls. Four different identities are possible.

Six user- or administrator-configurable (or carrier-preconfigurable) function keys can easily be allocated to arbitrary menu functions like DND, redirection, deny, etc., or assigned to multiple lines. The snom 300 comes factory-equipped with two of its six programmable keys configured as line appearances. You can configure up to all six function keys this way – flexible enough to suit the needs of every user.

Are you afraid of unsolicited eavesdroppers, data theft, or spam calls? Thanks to the snom 300 you have no need to worry. Due to the security standards SRTP and SIPS, the snom 300 is just as secure as the business model snom 320. This makes it perfectly suited for use in sensitive environments such as in banks and medical or military establishments.

- Backlit, two-line display (2 x 16 characters)
- 4 identities (lines)
- 27 keys, 7 LEDs
- 6 programmable function keys
- Speakerphone
- Power over Ethernet (PoE)
- Ethernet switch
- XML Mini-Browser
Technical Data snom 300

GENERAL FEATURES

- Dimensions: approx. 200 x 185 x 120 mm
- Weight: approx. 730 g
- Certification: FCC Class B, CE Marking
- Safety: IEC 60950-1:2001
- 1x LAN, 1x PC: RJ45 (Ethernet)
- Power over Ethernet: IEEE 802.3af, Class 1
- Power: PoE or 5V DC, power supply listed in the user guide (1)
- Ethernet: 2x IEEE 802.3 10/100 Mbps switch
- Handset: 4P4C connector
- Headset: (wired) 4P4C connector; wireless via snom EHS Advanced (2)

USER INTERFACE

- 2x16 character backlit display
- 27 keys, 6 programmable function keys with LEDs
- Menu-driven user interface
- Localization
- Selection of ring tones, VIP ring tones, integration of customized ring tones
- Call indication with LED
- LED indication for missed calls, waiting messages, and calls on hold
- Speakerphone
- Multiple audio device support
- Clock with automatic daylight-saving time
- Call timer

CALL FEATURES

- 4 identities (lines)
- Directory with 100 contact entries
- Import/Export of Directory
- Speed dialing
- URL dialing
- Local dial plan
- Automatic redial on busy

WEB SERVER

- Embedded web server HTTP/HTTPS
- Remote configuration/provisioning
- Dial from web interface
- Password protection
- Diagnostics (tracing, logging, syslog)

SECURITY, QUALITY OF SERVICE

- HTTPS (server/client)
- Transport Layer Security (TLS)
- SRTP (RFC3711), SIPS
- RTCP, S-RTCP
- VLAN (IEEE 802.1X)
- LLDP-MED

CODECS, AUDIO

- G.711 A-law, μ-law
- GSM 6.10 (full rate)
- Comfort noise, voice activity detection

SIP

- RFC3261 compliance
- UDP TCP and TLS
- Digest/basic authentication
- PRACK (RFC3262)
- Reliability of provisional responses (RFC3262)
- Early media support
- DNS SRV (RFC3263), redundant server support
- Offer/answer (RFC3264)
- Message Waiting Indication (RFC3842), subscription for MWI events (RFC3265)
- Dialog-state monitoring (RFC 4235)
- In-band DTMF/out-of-band DTMF/ SIP INFO DTMF
- STUN client, ICE (NAT traversal)
- ENUM (RFC3261), NAPTR (RFC2915), rport (RFC3851), REFER (RFC3515)
- Bridged line appearance (BLA) (3)
- Auto provisioning with PnP (3)
- Busy lamp field support (BLF) (3)

INSTALLATION

- Automatic software update
- Automatic settings retrieval via HTTP/HTTPS/TFTP with authentication
- Installation via web interface
- Remote management via TR-069/TR-111
- Static IP provisioning, DHCP
- NTP

(1) Available separately: Power supply PSAC10R-050 (snom PN 00002730)
(2) Available separately: snom EHS Advanced V2.0 (PN 00002362)
(3) If supported by PBX
FEP-IP 4

Flush-mounting Phone for VoIP

The flush-mounting phone FEP-IP4 is designed for using in a Voice-over-IP (VoIP) environment directly. Everywhere a highly available phone is required in a professional environment, FEP-IP4 is the solution:

- Integrated in control panels
- Used in naval architecture
- As emergency phone on the wall
- Integrated in sales booth with self-service for customer information
- In IT racks

FEP-IP4 fits to LAN directly. It uses the standard SIP protocol for the interconnection to a Soft-PBX. For professional applications with highly available requirements there is an additional interface at the phone: A standard POTS-interface (analog tip/ring). So, if VoIP doesn’t work, a connection to the public network remains on-line.

The dimensions of FEP-IP4 are identical with the long-time available FEP-2010, our flush-mounting phone for the POTS-line (analog tip/ring).

Version options of FEP-IP4:

- Handset with magnetic clamp for vertical installation.
- 4 Screw holes for wall or desk mounting. (Opening for assembly: L=260 x W=90 mm)
- Illuminated keypad
- One key only to start calling to a predefined destination (Without keypad).
- Handset with Push-to-Talk (PTT) or Push-to-Mute (PTM) key.
- Custom-specific dimensions and surface of the front.
- Helix cable for handset pluggable (RJ 10)

General features of the FEP-IP4:

- LAN-interface: Ethernet 100/10 Base-T(x) with IP-Protocol, RJ45 jack
- VoIP-signalling SIP (RFC 3261)
- Speech coding G.711
- Fallback: POTS interface (analog tip/ring)
- DTMF post-dialling according to CCITT Q.23 (RFC2833 or inband signalling)
- WEB-based configuration
- Optical call indication
- Switch off option for ringer (optical call indication only)
- 10 short-code dialling destinations
- Redialling
- Callback of unanswered calls (optical indication)
- Remote dialling using TCP/IP connection
- Option: Automatic call to a predefined destination after hook-off
- Option: Ringing only on tolerated callers
- Front surface / handset colour options:
  - grey (RAL 7032) / grey
  - beige (RAL 1015) / beige
  - black (RAL 9005) / black
  - Aluminium anodized natural (C1) / black
- Handset with helix cable, 4 wire, 30 cm length (other length on demand), hard-wired to FEP-IP4

- Dimension FEP-IP4 standard:
  - Outer diameter: L=280 x W=110 x H=50 mm
  - Opening for assembly: L=270 x W=100 mm
  - PoE according to IEEE 802.3af (KL.0) or external 12V-/24V-DC power supply (3 W)

Add-ons for FEP-IP4:

- Plastic chassis for wall mount
- PoE injector

Fig. left: FEP-IP4 flush mounting phone

Fig. right.: FEP-IP4 phone with magnetic clamp for handset and wall-mount chassis
FEP-IP 4 with Display

Flush-mounting phone for VoIP with additional features

Special features for FEP-IP4 with display:

- LCD-Display with backlight, 5 lines
- User menu with navigation over 4 keys
- Phone directory (100 destinations)
- Up to 15 keys for direct calls (user labeled)
- 2 status LED for direct calls (called, calling, waiting, lost call)
- Interface for headset
- Open listening
- Automatic call accept (Headset or open listening)
- Surface black RAL 9005
- Handset black
- Handset with helix cable, 4 wire, 30 cm length (other length optional), pluggable (RJ 10)
- Desk mount using 4 screw wholes
- Dimension FEP-IP with display:
  - Outer diameter: L=280 x W=190 x H=60 mm
  - Opening for assembly: L=260 x W=170 mm
- PoE according to IEEE 802.3af (Kl.0) or external 12V-/24V-DC power supply (6 W)

FEP - IP 19”

Flush-mounting phone for 19“ Racks

The flush-mounting phone FEP-IP 19“ is designed for implementation in a control cabinet. Directly connected to a LAN switch this VoIP-phone is a perfect solution for phone calls in computing rooms

Special features FEP – IP 19“:

- Surface black RAL 9005
- Handset black
- Dimension FEP-IP 19“: 2HE
- PoE according to IEEE 802.3af
- Custom specific options on demand
The FernTel IP is the ideal telephone for many differential work areas. Its striking signal colours ensure the FernTel IP cannot be missed whenever a telephone is urgently needed, e.g. in emergencies in poor weather and light conditions.

The FernTel IP is suitable for almost universal use thanks to its amazing transformability. A deft hand movement and the desk telephone for indoor use is converted into a wall telephone for outside use.

The FernTel IP makes possible effective working with high comfort. The illuminated keypad and display finish the comfort.

The standardized features according to H.450 are supported. The Ethernet connectivity supports with the internal 2 port switch connecting a laptop in an outdoor area. The laptop gets a network access through the telephone. The FernTel IP offers qualitative high-grade features according to industrial standards instead of proprietary solutions.
Technical specifications

Housing: Polycarbonate

Housing Dimensions: height x width x depth 293 x 191 x 128 mm

Weight: approx. 2.3 kg

Protection Degree: Acc. to IEC60529 IP 65

Power Supply: Power over LAN (IEEE 802.3af)

Connection: 2x RJ-45, Ports, 10/100-BASE-T Ethernet LAN

Ringing Volume: approx. 95 dB(A) at 1 m distance

Display: 128 x 64 Pixel

Temperature Range: -20 °C to +60 °C

Protocol: H.323, SIP, TSIP, SIPS

RTCP: Real Time Control Protocol – first level of Quality of Service

RAS Protocol: Support for External Gatekeeper

DTMF: H.245 Alphanumeric or Signal Type

Additional VoIP-Features: H.245 Fast Connect En-block dialling Overlapped Sending

Security: Password Protected Administration

Quality of Service: Priority of IP-Packages acc. to TOS and DiffServ,
VLAN Priority acc. to IEEE 802.1p / 802.1q

Voice Encoding: G.711 A-law / µ-law (64 kbps), G.723.1 (5.3 kbps),
G.729A (16kbps)

Echo Compensation: G.168

Access: via HTML Web-Browser

Troubleshooting: Log- and Trace-Files, State Display of Interfaces and
Connections, Ping Connection Test sending of SNMP Traps
over Internet Protocol

Update: Configuration recording/reading,
Boot code and firmware update via HTML upload,
Automatic update via Update-Server

DSL-Access: PPPoE Protocol

VPN: Tunnelling with PPTP Encoding via MPPE

NAT: Network Address Translation – for Transformation of official
IP Addresses into private IP Addresses and vice versa

DHCP: Dynamic Host Configuration Protocol –
IP interfaces settings

ICMP: Internet Control Message Protocol – for Ping tests

Dial Tone Generation: Automatic Dial Tone Generation European
and US Standard

Call Transfer: Call Transfer with/without consultation call

Call Diversion: Call Diversion Unconditional, Busy, No Reply

Call Hold / Retrieve: Call Hold / Retrieve

Call Waiting: Call Waiting inclusive Signalling of second Call Information

Message Waiting: Message Waiting Indication

Calling Name Identification: Name Display

3 Party Conference: 3 Party Conference of internal and/or external Subscriber

Calling Number Identification: Display of Calling Number

Multiple Registrations: Up to 6 Registrations

Telephone Book: Local, Integration of an External Database

Time/Date: Exact Time and Date Information via Time Server
ExResistTel IP2
Explosion-proof VoIP Telephone

IP Telephone for indoor and outdoor use in zone 1 and 2
- IP 66 protection class as per IEC60529
- Ambient temperature range -40°C to +60°C (heated display)
- Ring signal ≥ 95 dB(A) at a distance of 1 m
- Pixel-based illuminated LCD display
- V4A alphanumerical keypad
- Web based monitoring (operating, handset, hands free, ringing)
- Intelligent, user friendly menu structure
- Standard protocols H.323, SIP, TSIP, SIPS
- Power supply: PoE or external supply
- Connection to 10/100-BASE-T Ethernet
- Hands free communication

Application

Proven technology from FHF makes the ExResistTel IP2 suitable for all indoor and outdoor applications in hazardous areas.

The new ExResistTel IP2 is the ideal unit for all kinds of weather conditions at a wide variety of very diverse facilities – whether sea water, high humidity or extreme mechanical demands.

The housing is made of impact and shock resistant fiberglass-reinforced polyester. Even acids, alkalis or lubricants have no effect on the housing. Its robust design is the perfect “packaging” to meet the latest requirements demanded of VoIP telephones for use in hazardous areas. It is always available when a telephone is urgently needed, such as in emergency situations.

The ExResistTel IP2 makes work more effective by providing especially convenient telephone services.

An illuminated, heated display rounds out the convenience features of the ExResistTel IP2.

It also supports all features of the H.450 standard.

The ExResistTel IP2 offers high-quality features based on industry standards and our decades of experience.

A headset, available as accessory equipment, can be easily connected to the telephone. A handsfree function is also integrated into the unit.
Features

Display 182 x 64 pixels

Protocols H.323, SIP TSIP SIPS

General H.323 version 4 including H.225, H.235, H.245 and RAS
Gatekeeper routed signalling, H.450, Session Initiation Protocol (SIP) RTP,
SRTP Real Time Protocol – for voice data transmission

RTCP Real Time Control Protocol – first level of “Quality of Service”

RAS protocol Support for an external gatekeeper

DTMF H.245 “Alphanumeric” or “Signal Type”

Additional VoIP features H.245 fast connect en-bloc dialing overlapped sending

Security Encrypted password authentication as per H.235

Quality of Service IP packet prioritization via TOS and DiffServ
VLAN priority as per IEEE 802.1p / 802.1q

Audio codecs G.711 A-law / µ-law (64 kbps), G.729A (16 kbps)

Echo compensation G.168

Access HTML via web browser
Password protected with secure authentication

Troubleshooting Log and trace files and status display of interfaces and connections
Ping connection test for Internet Protocol, sending of SNMP traps

Updates Configuration save and restore,
Boot code and firmware updates via HTML upload
Automatic updating via update server

DSL access PPPoE protocol

VPN Tunneling with PPTP encryption with MPPE

NAT Network Address Translation – translates public IP addresses into private local
address space addresses and vice versa

DHCP Dynamic Host Configuration Protocol – sets up the IP interfaces

ICMP Internet Control Message Protocol – for ping tests

Call signal generation Automatic call signal generation as per European and US standards

Call transfer Call Transfer in all common variants: with/without asking, before/after answering, etc.

Call diversion Call Diversion / Redirection

Call hold Call Hold / Retrieve

Call waiting Call Waiting with corresponding signaling to calling party

Message Telephone displays that a message is waiting

Pickup Telephone displays that a call can be picked up

Pickup list Telephone displays a list of calls that can be picked up

Name display For signaling which name should be displayed

Call back Call Completion with all common variants such as call back when busy and
call back when free

3-way conference With 3 parties, also external parties

Caller ID For special signaling of individual phone numbers or phone number groups

Multiple registration Maximum of 6 registrations

Telephone book All registrations available automatically from central telephone book,
External databases integrated via LDAP

Time Precisely accurate time data via time server access
Technical specifications

Connection Data
Powered via Power over Ethernet as per IEEE 802.3af using the spare data lines or via external power supply
Voltage of external power supply 19.2 V - 52.8 V DC
Power consumption PoE (class 0) 12.95 W
Connection Screw terminals (10/100 Mbit/s)
Ring signal volume approx. 95 dB(A) maximum at a distance of 1 m
Housing (height x width x depth) 293 x 227 x 135 mm
Weight (standard model) approx. 5.000 g
Display 182 x 64 pixels
Mounting position Vertical wall mounting
Switching capacity of relay 250 V AC, 5 A
30 V DC, 5 A
50 V DC, 1 A
230 V DC, 0.5 A

Handset
Voice capsule Electret microphone
Earpiece capsule Dynamic capsule with magnetic field generator
Handset securing mechanism in cradle Standard equipment

Environmental Conditions
Ambient operating temperature -40 °C to +60 °C

Conformity
Protection class IP 66 as per IEC 60529
Impact resistance IK 09 as per EN IEC 62262:2002
Types of protection II 2G Ex e ib [ib] mb IIIC T4 Gb
III 2D Ex ib [ib] tb IIIC T 135 °C Db

Order information

<table>
<thead>
<tr>
<th>Type</th>
<th>Designation</th>
<th>Housing Color</th>
<th>Art. No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>ExResistTel IP2</td>
<td>VoIP Telephone</td>
<td>Black</td>
<td>112 861 80</td>
</tr>
</tbody>
</table>

Subject to change without notice - Printout 06/14
Overview Gigaset DA710

Connecting the telephone

1. Connect the telephone connector (1) to the main telephone socket. Use the telephone cable supplied. You may need a phone adapter depending on your country.

2. Guide the cable through the cable channel—upwards for operating the phone on the table (2); downwards when mounting the telephone on the wall (3).

3. Connect the handset to the telephone using the called cable (4).

Wall mounting

1. Drill two holes into the wall at a distance of 12.4 cm and fix two screws.

2. Lift out the handset bracket (6) with a screwdriver and slot it into the handset cradle (7).

3. Hang the telephone on the projecting screw heads.

Notes

- First use
1. Lift the handset for 5 seconds and place it back in the cradle.
2. Lift the handset again. You will hear the free tone and the device is now ready to be used.

The phone is connected to the power source via the phone line. In case of a power cut (e.g., if the PBX is switched off at night), the above mentioned steps need to be repeated. Phonebook entries and speed dialing destinations are stored indefinitely.

- The device is designed to be used as a single-line system (on the main extension or a telephone system). It cannot be operated as a second phone on a line splitter.

- Operation on a PBX or router
The private branch exchange (PBX) or the router must supply the phone with continuous DC voltage, even when ringing. If this is not the case, the phone may switch off briefly when ringing. As a result, saved information may be lost. Refer to the operating manual for your PBX or router for information in this regard or contact the manufacturer.
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- Setting the volume
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- Operation on a PABX
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- Appendix
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- Predefined key combinations
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Operation on a PABX
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Safety precautions
When installing, connecting and operating the telephone, always observe the following precautions:
- Only use the jack and leads supplied.
- Only connect the connecting lead to the intended socket.
- Only connect the approved accessories, such as the Gigaset ZK410 handset for example.
- Your Gigaset DA710 has been tested and approved with the Gigaset ZK410 handset.
- Other headsets may only function to a limited extent or not at all. Be sure to reduce the volume of the Gigaset DA710 when connecting another headset. As a headset from another manufacturer may emit a harmful and loud acoustic signal due to alignment differences.
- Lay the connecting lead where it will not cause accidents.
- Position the telephone on a non-slip surface.
- For your safety and protection, the telephone may not be used in the bath or shower rooms (fume locations). The telephone is not splash proof.
- Never expose the telephone to sources of heat, direct sunlight or other electrical devices.
- Protect your telephone from moisture, dust, corrosive liquids and vapours.
- Never open up the telephone yourself.
- Do not touch the plug contact with pointed or metallic objects.
- Do not carry the telephone by the leads.
- If you give your Gigaset DA710 to someone else, make sure you also give them the operating manual. Your Gigaset DA710 has a permanent memory, so you may want to delete any stored numbers before passing it on.

Setting up the telephone for use
Recommended installation of telephone:
- Do not expose the telephone to direct sunlight or other sources of heat.
- Operate at temperatures of between +5°C and +40°C.
- Maintain a distance of at least one metre between the telephone and radio equipment, e.g. radio telephones, radio paging equipment or TV sets. Otherwise telephone communication could be impaired.
- Do not install the telephone in dusty rooms as this can limit the service life of the telephone.
- Furniture lacquer and polish can be adversely affected by contact with parts of the unit (e.g. feet).

Operating the telephone
The keypad and the display are available to operate your Gigaset DA710. In addition, the display menus together with the control key provide access to the configuration and use of the many functions of the telephone. All usage possibilities are described in the handbook.

Note
Some of your telephone's functions may only be available without restriction if they are supported by your and the caller's network provider, e.g. functions for which information on the caller's telephone number is required.

This applies for the following functions, for example:
- Displaying the number of an incoming call (+ page 8)
- Indicating a caller with VIP melody (+ page 8)
- Call list (+ page 10)
- Call forwarding and other network services (+ page 13)

Display
In standby mode, the time, date and calendar week are displayed. You can set the date and time and the format in which it is displayed (+ page 11). Symbols on the display also provide information regarding the status of your telephone.

Display symbols
+ Flashes for a new call in the call list if the caller's number transmission (CLIP) is active (+ page 13)
- Phonebook open
- — Key lock activated
- Ring tone switched off
< Flashes on incoming VIP call
b Indicated if at least one entry with activated VIP mode is present in the phonebook (+ page 9)
Mute mode activated
O Headset connected
Control key

The telephone’s functions are activated and the menu is navigated using the control key. The functions offered depend on the operating situation.

In standby:

* Press the key to open the menu.

In menus and lists:

* Scroll one entry upwards/downwards.
* Hold down: Scrolls the list fast upwards/downwards.

While editing names and numbers:

* Moves the cursor to the left/right.
* Hold down: Moves the cursor fast to the left/right.

While pressing the direct dial key:

* Displays key phone numbers completely.

In menus, lists and with direct dial keys:

* Enters or exits the menu, list or direct dial key.

While changing settings:

* Terminates the action without changing the setting.

While editing names and numbers:

* Deletes the character to the left of the cursor.

While entering numbers:

* Deletes the line.

In menus and lists:

* Opens the submenu/context menu.

While editing entries/changing settings:

* Saves the edits or activates the selected settings.

Writing and editing text

Enter text using the keypad.

Multiple letters and numbers are assigned to each key between 1, 2, 3, 4, 5 and 6, 7, 8, 9, 0. To enter a specific character, press the corresponding key multiple times. You will find a table of applicable characters in the Appendix → page 16.

To switch between capital letters (ABC), lower case (abc) and numbers (123), press the P0 key until the desired figure is briefly displayed on the bottom right. This mode is not available in lines for telephone number entry.

Moving the cursor

Press the key to move the cursor to the left/right in the text.

Deleting/correcting characters

Press the left-hand side of the control key. The character to the left of the cursor is deleted. Press and hold down to delete the whole line.

Menu

The functions of your telephone are offered to you via a menu that consists of several levels.

* Press the key to open the menu.

The menu functions and submenu functions where necessary are displayed in list form.

* Scroll with the control key to the required function and press the right-hand side of the control key OR to confirm your selection.

* Press the key to return to the start menu.

Note:

To exit the menu without saving any previous entries, simply lift and then hang up the handset. After a short time the display will then once again show the standby mode.

Description of the menu selection steps

The steps to select a menu function are set out in these operating instructions as follows:

Phone setup → Language

This is accessed as follows:

* Open the menu using the key.

* Using the control key L, select the entry Phone setup and press the right-hand side of the control key OR.

Phonebook, call list and call list

Phonebook, call list and call list can be opened using the menu or keys.

Using the menu:

* Press the key to open the menu.

* Select Call List (CLIP) or Phonebook or Call list in order to open the desired list.

Using keys:

* Press the key to open the call list using the control key

* Press the phone number using the control key

The first list entry will be displayed in each case.

* Scroll with the control key OR to the desired entry and press the right-hand side of the control key OR to open the context menu.

Menu tree

The complete menu tree of the display menu is depicted below.
**Telephoning**

In addition to the handset, you can also call using the speaker (hands-free function) or using a headset connected to the telephone (page 6). In the following instructions, the symbol also always stands for CE.

**Making a call**

**Entering the telephone number using the keypad**

- Dial the number, lift the handset.
- or
- Press the number, lift the handset.

**Instead of lifting the handset:**

- Press the hands-free/headset key to make a call via the speaker or the connected headset.

You can switch over at any time during the conversation.

**Making a correction when entering the telephone number (only if handset is in its cradle):**

- Press the control key (or) to delete a digit entered in error to the left of the cursor.

**Dialling from the phonebook**

If you have already saved numbers in your phonebook (page 9), you can make a call directly from the phonebook.

- or
- Press the phonebook key.

**Search**

- or
- Enter letters (page 5). The first entry starting with this letter is displayed.

**Dialling numbers**

- or
- Lift the handset.
- or
- OK

**Open context menu**

- Select Dial entry and initiate the call using the speaker with OK. Lift the handset to make the call using the handset.

---

**Dialling from the call list**

The call list contains the numbers of the last 50 incoming and outgoing calls. Prerequisite: Telephone number display is possible for incoming calls (page 13).

Multiple calls from one number are only displayed once (with the information of the last call). If the number is saved to the phonebook or to the direct dial keys, the accompanying name is also displayed if present.

- or
- Call list (CLUI)

**Dialling numbers**

- Select the number or name.

**or**

- Lift the handset.

**or**

- Press the direct dial key, lift the handset.

**or**

- Press the direct dial key and open the context menu with OK.

**OK**

Initiate the call over the speaker using the control key. Lift the handset to make the call using the handset.

You can enter a selected number by entering additional digits.

**Incoming calls**

Incoming calls are indicated by the ring tone and in the display.

**For number displays (page 13), the number is visible in the display and the symbol 2 flashes.** This symbol disappears when you answer the call or if you don’t answer by calling up the call list.

The name is also displayed for callers who are stored in the phonebook or on the direct dial keys with names.

If the VIP mode is activated (page 12) the VIP symbol flashes in the display and the VIP ring tone signals the call.

**Accepting a call**

- Lift the handset.
- or
- OK

Press the hands-free key to accept the call via the speaker or the connected headset.

**Call waiting**

If the Call waiting service is activated (page 13), an incoming call is indicated during the conversation. You will hear the call waiting tone. The display shows the caller number if the number can be displayed, and the name if it is saved in the phonebook (page 9).

- Press the callback key to accept the call. The first caller hears a wait melody.

- Press the callback key again to end the second call and return to the first call.

**Using open listening / hands-free / headset**

**Switching open listening on/off**

The person in the room can listen to the call on the speaker.

During the call using the handset:

- Press the hands-free key to switch open listening on or off.

When the speaker is switched on and the handset is picked up, open listening is switched on. In this case, the hands-free microphone is switched off.

When the speaker is switched on and the handset is in the cradle, hands-free via the hands-free microphone is switched on.

**Switching from open listening to hands-free:**

- Replace the handset whilst pressing the hands-free key.

**Switching the hands-free on/off**

You can also make a call via the microphone with the handset in the cradle. The optimum distance from the microphone is approx. 50 cm.

**Switching on hands-free during a call**

- Replace the handset whilst pressing the hands-free key.

**Switching on hands-free prior to dialling**

- Hands-free key, wait for dial tone.

**Switching off hands-free**

- Lift the handset during the call. The call is transferred to the handset.

**Ending a call**

- Press the hands-free key during a call over the speaker.

---

**Note**

Hands-free and open listening are not possible if a headset is connected.

**Using a headset**

Connect the headset (page 2). You can then make a call over the headset whilst the handset is in the cradle. (Please note the safety precautions page 4.)

The telephone is operated using the hands-free/ headset key in the same way as for the hands-free function (see above).

Once the headset is connected it is indicated in the display with the symbol.
Settings during a call
The settings described below can also be changed in the menu (~ page 11).

Setting the handset/headset volume
There are three adjustable levels.
Set the volume using the volume up/volume down keys.
The set volume is shown in the display.

Setting the speakerphone
There are seven adjustable levels.
Set the volume using the volume up/volume down keys.
The set volume is shown in the display.

Mute
You can switch off the microphone or handset microphone during a call according to the setting of the mute function (~ page 11).
Press the mute key to switch the mute function on or off. During muting of the microphone, a nobody can be played.
Once the telephone has been muted this is indicated in the display with the symbol.

Ringer and volume
While the telephone is ringing, the volume and ringer can be changed.
Set the ringer volume with the volume up/volume down keys (5 levels, 0 silent).
Select ringer with the numeric keys (10 different). Using the phonebook, lists and direct dial keys
The following options are available on your telephone for storing your contacts and the incoming and outgoing calls:
- Phonebook with max. 100 entries
- Call list with the last 50 incoming calls
- Call list with the last 5 outgoing calls
- Direct dial keys for storing 10 important numbers

Phonebook
Your Gigaset DA710 contains a phonebook in which you can save up to 100 entries, each with a maximum of 32 digits for numbers and 16 characters for names.
You can make a call (~ page 7), add new entries and manage and modify entries (~ page 6) using the Phonebook.
You can manually enter numbers and names or transfer them from the call list (~ page 10). You can also allocate VIP mode to a number.
The symbol is indicated in the display if the phonebook has been opened. In addition, the phonebook entry number is also indicated in the display (01…99, 00 is displayed for 100).

Opening phonebook
Press the control key.

Either: save in phonebook
Select Phonebook.
Searching an entry
Set an entry.
Hold down the top or bottom of the key to scroll fast in the list.
Enter letters (~ page 5). The first entry starting with this letter is displayed.

Saving numbers
Select Phonebook.
The first list entry is displayed.

Either: save in phonebook
Select New entry and confirm with OK.
Enter name and confirm with OK.
Enter name and confirm with OK.
The notice Save to PBK? appears in the display.

Either: save in phonebook
OK Confirm the saving of the entry in the Phonebook.
Select VIP mode (On / Off) and confirm with OK.

Or: save to a direct dial key
Press the desired direct dial key.
The notice Save appears in the display.

Transferring a number from the call list to the phonebook/ direct dial key
Select the call list.
Select the entry and open context menu with OK.
Select Save number and confirm with OK.
Change number if required and confirm with OK.
Enter name and confirm with OK.
While editing numbers and names, move the cursor with .

Opening the call list
Open the call list.
Select VIP mode (On / Off) and confirm with OK.

Or: save to a direct dial key
Press the desired direct dial key.
The notice Save appears in the display.

Delete entry / Delete all
Open the last number redial list.
Select the entry and open context menu with OK.
Select Delete entry or Delete all and confirm with OK.
OK Press the control key to confirm the action.

Direct dial keys
You can save up to 16 numbers on direct dial keys. Use the shift key to access the second storage area. The display symbol indicates that the shift function is active.
You can also assign direct dial keys to the entries in the phonebook, in the call list or the redial list.
They can also be used as function keys e.g. for call forwarding. Your network provider will notify you of the services and functions offered and the corresponding key sequences. The menu offers you additional optional settings for network services (~ page 13).

Savings numbers / Changing the allocation
Press the desired direct dial key that you want to assign with a number or the entry of which is to be changed.
Empty is displayed when the storage is empty.
If the key is already assigned you will see the saved number. For long numbers (more than 16 digits) switch between the display digits 1-16 and 17-32 with the control key .
New entry
OK Switch to the entry mode with OK.
Changing the allocation
OK Open the context menu with OK.
Select Edit entry and confirm with OK.
Enter/change number and name
Enter/change number and confirm with OK.
Enter/change name and confirm with OK.
Adjusting the telephone

Basic settings:
All basic settings are accessed via the menu Phone setup.
The current setting is marked at the right-hand side of the display with *.

Changing the Language
You can change the language for display messages. There are four languages to choose from.

OK Press the control key to save the setting.

Set LED on hands-free/headset key
You can specify when the telephone LED should flash (key 

OK Press the control key to save the setting.

Setting the ringer
The following optional settings are available:
- Melody and volume
- VIP Melody
- Switching the ringer off

Setting the melody and volume
You can set the ringer melody and volume or switch the ringer off. There are 16 different ringer sounds available, the volume can be adjusted in 5 levels (brokers).

OK Press the control key to save the setting.

Not: The melodies are played over the speaker if you lift the handset before coming off the line.

You can also change both settings directly using the keys while the telephone is ringing.

Setting the volume
Handset, speaker and headset volume can be set using the menu or changed during the telephone conversation directly using the keys (- page 9).

Setting the handset volume
There are three adjustable levels.
- Audio setup – Handset Volume
- Select the required volume and confirm with OK.
- The current value will be displayed.

Setting the speaker volume
There are seven adjustable levels.
- Audio setup – Speaker Volume
- Select the required volume and confirm with OK.
- The current value will be displayed.

Setting the headset volume
There are three adjustable levels.
- Audio setup – Headset Volume
- Select the required volume and confirm with OK.
- The current value will be displayed.

Mute
You can mute only the microphone or the speaker and microphone.

OK Press the control key to save the setting.

Setting the VIP Melody
You can set one of the ringer as VIP Melody. When you have assigned a number from the phonebook VIP mode status. In incoming call from this number will be indicated with the VIP Melody ring tone.

OK Press the control key to save the setting.

Setting the ring mode
If you do not wish to be disturbed, you can switch-off the telephone’s ringer. The three following optional settings are available: All tones off, VIP only (see above), All tones on (default setting).

OK Press the control key to save the setting.

Switching the ring tone off using the key
- Hold the key down to switch the ring tone off and back on.
- Once the ring tone has been switched off, this is indicated with the symbol in the display.

Security settings

Lacking the telephone
You can secure your telephone against unauthorized access by using the Key lock and PIN entry, in order to lift the Key lock.

... Note ... You have changed the telephone PIN you must always enter the PIN after selecting the Security menu entry.

Setting up the Key lock
When the Key lock is activated, all keys are locked, with the exception of the menu key, the hands-free/headset key and the stored emergency numbers (- page 12).

Activating the Key lock
- Press the menu key.
- Enter a 4-digit PIN and confirm with OK.

Dialing the Key lock
- Enter the Key lock.
- Press the key.
- Enter a 4-digit PIN and confirm with OK.

Emergency calls
There are two emergency numbers stored in the telephone as default setting (110, 112). You can store an additional emergency number with a max. of 20 digits. These emergency numbers can also be selected when the key lock is switched on.

Selecting an emergency number
- Enter the emergency number.

Emergency is indicated in the display.

Saving the emergency number
- Enter the emergency number and confirm with OK.
Direct calling (baby call)
When direct calling is activated, the stored number is dialed by pressing any key after lifting the handset (except for the keys[on] and [off]).

Actuating direct calling

[1]  Security  Direct call
[0] [1] [2] [3] [4] [5] [6] [7] [8] [9] [0]
[0] [1] [2] [3] [4] [5] [6] [7] [8] [9] [0]

Deactivating direct calling

[1]  Press the menu key.
[0] [1] [2] [3] [4] [5] [6] [7] [8] [9] [0]
[0] [1] [2] [3] [4] [5] [6] [7] [8] [9] [0]

Blocking numbers
You can block phone calls to specific dialling codes (e.g. chargeable codes), max. 3 numbers with 3 digits each.

[1] Security  Call block
[0] [1] [2] [3] [4] [5] [6] [7] [8] [9] [0]
[0] [1] [2] [3] [4] [5] [6] [7] [8] [9] [0]

Network services

Public telephone systems offer you – in some cases only on request – a range of helpful, additional services (e.g. call forwarding, calling when busy, withheld number, etc.). These services can be selected using specific keys, combinations, of which your network provider will notify you. These services can be called up and activated in the telephone menu and the corresponding key combinations can be set or adjusted if necessary.

A list with predefined key combinations can be found in the Appendix (page 15).

Caller display (CLIP)
If the caller display service is activated, an incoming call is shown on the display with the number and saved in the call list. Prerequisite: The network provider supports the following service features and the number transfer is not withheld by the caller:

- CLIP (Calling Line Identification): The caller’s number is transferred.
- CLIP (Calling Line Identification Presentation): The caller’s number is displayed.

You can transfer this number to the phonebook and edit it (page 9).

If you have saved the local dialling code (* page 14), a call with the same dialling code is automatically only displayed as the number without the dialling code.

Call Divert
Call forwarding can be set up for three different conditions:
- All Calls (CFU, Call Forwarding Unconditional)
- No Answer (CFNR, Call Forwarding No Reply)
- When Busy (CFB, Call Forwarding Busy)

Activating call forwarding

[3] [4] [5] [6] [7] [8] [9] [0]
[0] [1] [2] [3] [4] [5] [6] [7] [8] [9] [0]
[0] [1] [2] [3] [4] [5] [6] [7] [8] [9] [0]

Withheld number (anonymous call)
If you activate the withheld number function, your number will not be displayed for the person you are calling.

[3] [4] [5] [6] [7] [8] [9] [0]
[0] [1] [2] [3] [4] [5] [6] [7] [8] [9] [0]
[0] [1] [2] [3] [4] [5] [6] [7] [8] [9] [0]

Other network services

Setting/changing key combinations for network services
If the preset key combinations for the network services do not match the information from your network provider, or if no key combinations is preset, these can be changed or set in the corresponding network service menu.

Your network provider will notify you of the key combinations - if offered.

[1]  Class
[3] [4] [5] [6] [7] [8] [9] [0]
[0] [1] [2] [3] [4] [5] [6] [7] [8] [9] [0]
[0] [1] [2] [3] [4] [5] [6] [7] [8] [9] [0]

Other network services

Setting/changing key combinations for network services
If the preset key combinations for the network services do not match the information from your network provider, or if no key combinations is preset, these can be changed or set in the corresponding network service menu.

Your network provider will notify you of the key combinations - if offered.

[0] [1] [2] [3] [4] [5] [6] [7] [8] [9] [0]
[0] [1] [2] [3] [4] [5] [6] [7] [8] [9] [0]

Operation on a PBX

Special functions/Recall key
During an external call, you can make an enquiry or forward the call. To do this, press the recall key. The subsequent procedure depends on your PBX. To set the recall key, the telephone flash time must be set consistently with your PBX. Please refer to the operating instructions for your PBX.

Changing the dialling mode/flash time
The telephone supports the following dialling modes:
- Tone dialling
- Pulse dialling
Depending on your PBX, you may need to change your phone's dialling mode or the flash time. (Default setting: Tone dialling)

Changing the dialling mode

[0] [1] [2] [3] [4] [5] [6] [7] [8] [9] [0]
[0] [1] [2] [3] [4] [5] [6] [7] [8] [9] [0]

Changing the flash time
You can change the flash time if the dialling mode is set to tone dialling (are above) (default setting 90 ms). If necessary, the flash time on your telephone must be adjusted to the requirements of the telephone system (page 10).

Temporary switch to tone dialling in "Pulse" position
To use functions that require tone dialling (e.g. remote control of answering machine), you can set the telephone to tone dialling for the duration of the call.

After the connection is established, the setting reverts to pulse dialling.

Setting dialling prefixes
If your phone is connected to a PBX, you may have to use a dialling pre- fix to make external calls. You can save up to three prefixes in your telephone.

If dialling prefix is recognised during dialling, a dialling pause will automati- cally be applied. You can adjust the time of the dialling pause if neces- sary (page 15).

[0] [1] [2] [3] [4] [5] [6] [7] [8] [9] [0]
[0] [1] [2] [3] [4] [5] [6] [7] [8] [9] [0]

Operation on a PBX

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- Tone dialling
- Pulse dialling
Depending on your PBX, you may need to change your phone's dialling mode or the flash time. (Default setting: Tone dialling)

Changing the dialling mode

[0] [1] [2] [3] [4] [5] [6] [7] [8] [9] [0]
[0] [1] [2] [3] [4] [5] [6] [7] [8] [9] [0]

Changing the flash time
You can change the flash time if the dialling mode is set to tone dialling (are above) (default setting 90 ms). If necessary, the flash time on your telephone must be adjusted to the requirements of the telephone system (page 10).

Temporary switch to tone dialling in "Pulse" position
To use functions that require tone dialling (e.g. remote control of answering machine), you can set the telephone to tone dialling for the duration of the call.

After the connection is established, the setting reverts to pulse dialling.

Setting dialling prefixes
If your phone is connected to a PBX, you may have to use a dialling pre- fix to make external calls. You can save up to three prefixes in your telephone.

If dialling prefix is recognised during dialling, a dialling pause will automati- cally be applied. You can adjust the time of the dialling pause if neces- sary (page 15).

[0] [1] [2] [3] [4] [5] [6] [7] [8] [9] [0]
[0] [1] [2] [3] [4] [5] [6] [7] [8] [9] [0]
### Appendix

#### Other settings

In addition to the options described in section **Adjusting the telephone** (* page 11), you can perform further settings with the help of feature codes (e.g. reset the factory settings). These are summarized in the following table.

Default settings are displayed in **bold**. If there is no bold value for a setting, the presetting is country-dependent.

**1** Enter the key sequence for the feature code and confirm with **OK**.

<table>
<thead>
<tr>
<th>Key sequence</th>
<th>Value</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>02 0</td>
<td>0</td>
<td>Sets the length of the pause that can be inserted with the pause key</td>
</tr>
<tr>
<td>1</td>
<td>1</td>
<td>1 sec</td>
</tr>
<tr>
<td>2</td>
<td>2</td>
<td>2 sec</td>
</tr>
<tr>
<td>3</td>
<td>3</td>
<td>3 sec</td>
</tr>
<tr>
<td>6</td>
<td>6</td>
<td>6 sec</td>
</tr>
</tbody>
</table>

25 | | Restores all settings to the factory settings |
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td></td>
<td>Deletes the contents of all programmable direct dial keys</td>
</tr>
<tr>
<td>2</td>
<td></td>
<td>Deletes all dialling codes</td>
</tr>
<tr>
<td>3</td>
<td></td>
<td>Restores all network service codes</td>
</tr>
<tr>
<td>4</td>
<td></td>
<td>Deletes all stored numbers (not phonebook)</td>
</tr>
</tbody>
</table>

50 | | Time display off |
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td></td>
<td>1 hour format</td>
</tr>
<tr>
<td>2</td>
<td></td>
<td>24 hour format</td>
</tr>
</tbody>
</table>

57 | | Deactivate | Deselect | (select for call waiting) |
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>300 ms</td>
<td>200 ms</td>
<td>30 ms</td>
<td>70 ms</td>
</tr>
</tbody>
</table>

70 | | Deactivate | Activate | (select for call waiting) |
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td></td>
<td></td>
<td></td>
<td>1 hour format</td>
</tr>
</tbody>
</table>

83 | | Deactivate | Activate | (select for call waiting) |
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>1</td>
<td>1 second</td>
<td>1 minute</td>
<td></td>
</tr>
</tbody>
</table>

88 | | Settings: 1 = | 6 = | 11 = | 18 = |
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td></td>
<td>1 = minimum contrast</td>
<td>5 = default setting</td>
<td>11 = maximum contrast</td>
<td></td>
</tr>
</tbody>
</table>

91 | | | 1.5 | 2 |
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>1</td>
<td>1 sec</td>
<td>2 sec</td>
<td></td>
</tr>
</tbody>
</table>

92 | | | 81 / 85 ms | 85 / 90 ms |
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>1</td>
<td>1 second</td>
<td>1 minute</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Key sequence</th>
<th>Value</th>
<th>Description</th>
</tr>
</thead>
</table>

#### Predefined key combinations

The following key combinations are predefined for the activation/deactivation of network services.

<table>
<thead>
<tr>
<th>Function</th>
<th>Key combination</th>
</tr>
</thead>
<tbody>
<tr>
<td>Activate call forward for all calls (EFL)</td>
<td><em>2</em></td>
</tr>
<tr>
<td>Deactivate call forward for all calls</td>
<td>#3</td>
</tr>
<tr>
<td>Activate call forward when no reply (CFNR)</td>
<td><em>6</em></td>
</tr>
<tr>
<td>Deactivate call forward when no reply</td>
<td>#6</td>
</tr>
<tr>
<td>Activate call forward when busy (CFB)</td>
<td><em>8</em></td>
</tr>
<tr>
<td>Deactivate call forward when busy</td>
<td>#8</td>
</tr>
<tr>
<td>Activate signalling for call waiting (CW)</td>
<td><em>4</em></td>
</tr>
<tr>
<td>Deactivate signalling for call waiting</td>
<td>#4</td>
</tr>
</tbody>
</table>

*number* This will be replaced by the phone number, which has been specified for the corresponding function in the menu **CLASS** (* page 13).**

### Standard characters

The following characters can be entered using the keypad:

| Key | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | * | / ( ) | < > | % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | a | b | c | d | e | f | g | h | i | j | k | l | m | n | o |
| 2 | p | q | r | s | t | u | v | w | x | y | z | | | | |
| 3 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | * | / ( ) | < > | % |

**Space** The mode for text entry is changed by repeatedly pressing the shift key. Change between capitals (ABC), lower case (abc) and digits (123).

#### Care

**Wipe** the unit with a damp cloth or a soft, lint-free cloth. Never use a dry cloth; this can cause static.

**Contact with liquid**

If the device comes into contact with liquid:

1. Allow the liquid to drain from the device.
2. Pat all parts dry. Place the device (the keypad facing down) in a dry, warm place for at least 24 hours (not in a microwave, oven, etc.)
3. Do not switch on the device again until it is completely dry.

If it has already dried out, you will normally be able to use it again. In rare cases, contact with chemical substances can cause changes to the telephone’s exterior. Due to the wide variety of chemical products available on the market, it was not possible to test all substances.

#### Questions and answers

**You lift the handset, but don’t hear the free tone:**

Lift the handset for 5 seconds, put it back in the cradle and lift it again. You lift the handset but you hear no dialling tone:

Is the connecting line correctly plugged into the telephone and the telephone socket?

The dialling tone is audible but the telephone will not dial:

The connection is OK. Is the dialling mode set correctly?

The other party cannot hear you:

Mute activated?

#### Regular pulse noises can be heard during a call:

The connection is receiving metering pulses from the exchange, which the telephone cannot interpret. Contact your network operator.

#### Protecting our environment

**Our environmental statement**

We at Gigaset Communications GmbH are aware of our social responsibility. That is why we actively take steps to create a better world. In all areas of our business—from product planning and production to sales and waste and disposal—following our environmental conscience is everything we do is of utmost importance to us. Learn more about our earth-friendly products and processes online at www.gigaset.com.

**Environmental management system**

Gigaset Communications GmbH is certified according to the international standards ISO 14001 and ISO 9001. ISO 14001 (Environment): Certified since September 2007 by TÜV SÜD Management Service GmbH. ISO 9001 (Quality): Certified since 17/02/1994 by TÜV SÜD Management Service GmbH.

#### Contacts

If you should encounter any problems when operating the telephone connected to a communication system with analogue network access, please contact the network operator responsible or your dealer.

#### Disposal

All electrical and electronic products should be disposed of separately from the municipal waste stream via designated collectors. Facilities appointed by the government or the local authorities. This crossed-out wheeled bin symbol on the product means the product is covered by the European Directive 2002/96/EC. The correct disposal and separate collection of your old appliance will help prevent potential negative consequences for the environment and human health. It is a precondition for reuse and recycling of used electrical and electronic equipment.

For more detailed information about disposal of your old appliance, please contact your local council or refuse centre or the original supplier of the product.

#### Authorisation

This device is intended for analogue phone lines in the UK.

Country-specific requirements have been taken into consideration. We, Gigaset Communications GmbH, declare that this device meets the essential requirements and other relevant regulations laid down in Directive 1999/5/EC.

A copy of the 1999/5/EC Declaration of Conformity is available at the Internet address www.gigaset.com/docs.
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5113 BRIDGE CONSOLE TELEPHONE (w/o. BACKLIGHT)

CONNECTION TO PRIX EXCHANGE

24 VDC POWER SUPPLY FOR EXTERNAL LOUDSPEAKER

SIGNAL DEVICE POWER SUPPLY
24VDC / 110VAC / 230VAC
MAX 5A

NOTES:

CABLE REQUIREMENTS:
TWISTED PAIR WITH OUTER SCREEN.
RECOMMENDED CONDUCTOR AREA ALL CABLE TYPES: 0.75 sq.mm.
DO NOT COMBINE SIGNAL CABLES WITH OTHER CABLE TYPES SUCH AS MAIN SUPPLY.
THE CABLING FOR THIS SYSTEM SHOULD BE A SEPARATE NETWORK.
Weatherproof Telephone
FernTel 3

Analogue desk/wall telephone for indoor and outdoor use

- Shock-resistant housing (Polycarbonat)
- Protection degree IP 65 acc. to IEC60529
- Option Handset can be fixed (stabiliser bracket)
- Ambient temperature -25°C to +55°C
- Call tone ≥ 95 dB(A), 1 m
- Direct key at Displayversion
- Receiver volume can be boosted
- Telefonbook at Displayversion
- PIN code
- ZB-Version with call tone unit
- Assembly-friendly
- Menu 4 languages

Application

The FernTel 3 telephone of FHF is as stylish for indoor use as it is resistant for outdoor use in areas without explosive atmospheres. The new FernTel 3 is the ideal telephone for many different work areas – seawater, high air humidity, dust and not exactly gentle mechanical stress are no problem for it.

Its modern design is the perfect “packing” for the finest high-tech.
Its striking signal colours ensure the FernTel 3 cannot be missed whenever a telephone is urgently needed, e.g. in emergencies in poor weather and light conditions.

The FernTel 3 is suitable for almost universal use thanks to its amazing transformability.

A deft hand movement and the desk telephone for indoor use is converted into a wall telephone for outside use.

The FernTel 3 is offered in different variations. With 16 buttons without Display or with 21 buttons with Display. Both variations are offered with spiral cord or steel armoured cord. As addition, the FernTel 3 with Display has a direct key.

Of course, there is the new FernTel 3 also as Hotline phone (ZB-Variant), with call tone unit.

In the casing-inside there is a keyboard for deposited that Hotline number. One becomes as accessories a stabiliser bracket for applications on movable machines, like for example on Ships.
### Technical specification

**Connection data**

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Supply voltage</td>
<td>24…66 Vdc</td>
</tr>
<tr>
<td>Supply current</td>
<td>19… 100 mA</td>
</tr>
<tr>
<td>Ringing alternating current</td>
<td>30…90 Vac</td>
</tr>
<tr>
<td>Ringing frequency</td>
<td>16… 68 Hz</td>
</tr>
<tr>
<td>Enquiry key (flash)</td>
<td>only for DTMF 80 ms, 120 ms, 600 ms</td>
</tr>
<tr>
<td>Dialling procedure</td>
<td>DTMF</td>
</tr>
<tr>
<td></td>
<td>PD</td>
</tr>
<tr>
<td>Ringing volume</td>
<td>Approx. 95 dB(A) at 1 m distance</td>
</tr>
</tbody>
</table>

**Housing**

- **Material:** Polycarbonat
- **Dimensions:** 293 x 191 x 128 mm
- **Weight:** Approx. 2.3 kg
- **Display:** 2 lines, 16 positions per row, 7x5 matrix
- **Pictograms:** Menu 4 languages
- **Utilization position:** Table or vertical wall mounting

**Receiver**

- **Mouthpiece:** Electret-foil microphone
- **Receiver inset:** dynamic receiver inset with magnetic field generator
- **Connections:** Single- or multiwired up to 2.5 mm²

**Labelling**

- **Power cable:** TCP/La, TCP/Lb
- **Secondary sounder:** W / W1

**Environmental conditions**

- **Phone:** -25°C...+55°C
- **LCD Unit:** -10°C...+50°C

**Degree of protection acc. to IEC60529:** IP 65

### Order information

**Table:**

<table>
<thead>
<tr>
<th>Type</th>
<th>Name</th>
<th>Version</th>
<th>Art. no. *</th>
</tr>
</thead>
<tbody>
<tr>
<td>FernTel 3</td>
<td>Desk/Wall Telephone</td>
<td>without display, with spiral cord</td>
<td>112 300 2</td>
</tr>
<tr>
<td>FernTel 3</td>
<td>Desk/Wall Telephone</td>
<td>with display, with spiral cord</td>
<td>112 310 2</td>
</tr>
<tr>
<td>FernTel 3</td>
<td>Desk/Wall Telephone</td>
<td>without display, with flexible steel armoured cord</td>
<td>112 320 2</td>
</tr>
<tr>
<td>FernTel 3</td>
<td>Desk/Wall Telephone</td>
<td>with display, with flexible steel armoured cord</td>
<td>112 330 2</td>
</tr>
<tr>
<td>FernTel 3 ZB</td>
<td>Desk/Wall Telephone</td>
<td>without keypad, with flexible steel armoured cord</td>
<td>112 350 2</td>
</tr>
<tr>
<td>Accessories</td>
<td>Stabiliser bracket</td>
<td></td>
<td>112 390 00</td>
</tr>
</tbody>
</table>

* The full article number is made up by appending the colour code for the coloured housing to the article numbers given below.

- **Yellow:** 1
- **Red:** 2
- **Grey:** 7
- **Black:** 0

Subject to change without notice

Printout 01/07
Connection of a telephone unit 5111 together with the relay unit 5000

Connection of a stand-alone telephone unit 5111

FSK Twinex Kombi

230VAC input

Analog PABX line

Rated power for the signaling device: 90-240 VAC / 5-48 VDC 8 Amp

Title: 5111 - Ferntel3 Industrial Telephone

External connection

This document is the property of PHONTECH and must not be copied or shown to a third person without our written acceptance. In the interest of product improvement, PHONTECH reserves the right to alter specification and design without notice.

Size: A4

Doc. No: 07500-004-EC

File Name: 07500-004-EC.DWG
HEADDRESS SIMPOLE PRIMARY POWER 24VDC ANALOG PABX LINE

TOP/1a AND TOP/1b IS TERMINALS FOR LINE FROM TELEPHONE EXCHANGE.
CONNECTION ALTERNATIVES:

POWER CONTROL MODE:

TRIGGER CONTROL MODE:

INSTALLATION AND OPERATION PRECAUTIONS:

* THE RING RELAY UNIT MUST BE CONNECTED TO A LIVE TELEPHONE LINE FOR 1 MINUTE BEFORE FIRST OPERATION

* THE RING RELAY CAN INITIALLY BE IN THE WRONG STATE AND MUST BE OPERATED ONCE BEFORE SECURE CORRECT OPERATION

* RELAY ACTION:
P2 OFF = CONTINUOUS
P2 ON = PULSED
RELAY MAXIMUM LOAD = 8A

F

5000, ABS – RING RELAY UNIT
External Connection
Application

Communication devices for use in hazardous areas in the industry have to be especially well adapted to the extreme operating conditions they will be exposed to.

Our Ex-telephone has been developed for operation in the petro-chemical industry, on off-shore plants, in mills and harbours, which means it is resistant to large temperature differences, air humidity, sea water, dust and strong mechanical wear and tear. It is certified for use in hazardous dust and gas atmospheres.

The ExResistTel is completely programmable, and has been equipped with a 21-piece stainless (V4A) steel keypad designed for use with gloves. Letters and figures are presented clearly on the alphanumeric display.

The ExResistTel also boasts all the convenient features that have become standard in the field of office communication. A string of optional extras and components – especially certified for hazardous areas – makes our telephone even more functional.

ExII-Telephone
ExResistTel

Explosion-proof, weatherproof
Industrial telephone

- Handsfree
- Temperature range
  -25°C to +60°C
- Certified for dust and gas atmospheres
- Display
- IP 66 EN 60529
- different housing colours
## Technical specifications

### Connections

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Types of protection</td>
<td>II 2G Ex e mb [ib] IIIC T5 Gb</td>
</tr>
<tr>
<td></td>
<td>II 2D Ex tb [ib] IIIC T100°C Db</td>
</tr>
<tr>
<td></td>
<td>-25°C ≤ Tₘ ≤ 60°C</td>
</tr>
<tr>
<td>Approval</td>
<td>DMT 02 ATEX E 183</td>
</tr>
<tr>
<td>Line voltage</td>
<td>24 VDC to 66 VDC</td>
</tr>
<tr>
<td>Line current</td>
<td>15 mA to 100 mA</td>
</tr>
<tr>
<td>Ringing alternating current</td>
<td>24 VAC to 90 VAC (at 21...54 Hz)</td>
</tr>
<tr>
<td></td>
<td>30 VAC to 90 VAC (at 16,6...54 Hz)</td>
</tr>
<tr>
<td>Ringing impedance</td>
<td>greater than 6,0 KΩ at 25 Hz</td>
</tr>
<tr>
<td></td>
<td>greater than 4,0 KΩ at 50 Hz</td>
</tr>
<tr>
<td>Inquiry key</td>
<td>Flash function adjustable from 40 ms</td>
</tr>
<tr>
<td>Dialling procedure</td>
<td>PD-DTMF operation to be set in the menu.</td>
</tr>
<tr>
<td>W-conductor</td>
<td>Connection for external secondary sounder</td>
</tr>
<tr>
<td>Screw terminals</td>
<td>up to 4 mm² rigid. Up to 2.5 mm² flexible</td>
</tr>
</tbody>
</table>

### Housing

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Material</td>
<td>Glass-fibre-reinforced polyester</td>
</tr>
<tr>
<td>Height x Width x Depth</td>
<td>approx. 266 mm x 227 mm x 135 mm</td>
</tr>
<tr>
<td>Weight</td>
<td>approx. 5.5 kg</td>
</tr>
<tr>
<td>Display</td>
<td>2-line alphanumerical display with pictograms, Visible area approx. 78 mm x 26 mm</td>
</tr>
<tr>
<td>Keypad</td>
<td>Metal keypad with ice protection, 21 keys with ABC lettering for name entries</td>
</tr>
</tbody>
</table>

### Receiver

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Stabilizer bracket</td>
<td>Integrated, adjustable stabilizer bracket</td>
</tr>
<tr>
<td>Handset cord</td>
<td>Stainless steel (V4A) armoured handset cord</td>
</tr>
<tr>
<td>Receiver inset</td>
<td>Dynamic receiver inset with leakage field spool for inductive coupling of hearing aids</td>
</tr>
<tr>
<td>Mouthpiece</td>
<td>Electret-foil microphone</td>
</tr>
<tr>
<td>Noise suppression</td>
<td>greater than 3dB due to integrated mouthpiece horn mouth</td>
</tr>
</tbody>
</table>

### Environmental conditions

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Degree of protection</td>
<td>IP 66 according to EN60529</td>
</tr>
<tr>
<td>Impact protection</td>
<td>IK 09 according to EN50102</td>
</tr>
<tr>
<td>Operation temperature</td>
<td>-25°C to +60°C for temperature class T5</td>
</tr>
<tr>
<td></td>
<td>-25°C to +40°C for temperature class T6</td>
</tr>
<tr>
<td>Storage temperature:</td>
<td>-25°C to +70°C</td>
</tr>
</tbody>
</table>

### Further characteristics

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Optical call signalling</td>
<td>Display shows ( ( ( ▄ ▄ ) ) )</td>
</tr>
<tr>
<td>Ringing sound pressure level</td>
<td>approx. 90 dB(A) at 1m distance</td>
</tr>
<tr>
<td>Ringing melodies</td>
<td>10 melodies selectable</td>
</tr>
<tr>
<td>Listening by loudspeaker</td>
<td>Maximum sound pressure level approx. 68 dB (A) at 1m distance</td>
</tr>
<tr>
<td>Handsfree operation</td>
<td>Maximum sound pressure level approx. 68 dB (A) at 1m distance</td>
</tr>
<tr>
<td>Amplified listening in receiver</td>
<td>Receiver volume can be boosted, in 7 steps from 0 –12 dB(A)</td>
</tr>
<tr>
<td>Menus</td>
<td>in several language</td>
</tr>
<tr>
<td>Telephone directory</td>
<td>max. 50 entries (names and numbers)</td>
</tr>
</tbody>
</table>
## Accessories

- **ExII-Additional headset**
- **ExII-Additional earpiece**
- **ExII-Loudspeaker set**
- **ExII-TWIN**
- **Protection hood**
- **ExII-Secondary sounder**

### Order information

<table>
<thead>
<tr>
<th>Type</th>
<th>Name</th>
<th>Version</th>
<th>Article no.</th>
</tr>
</thead>
<tbody>
<tr>
<td>ExResistTel</td>
<td>ExII-Telephone</td>
<td>black</td>
<td>112 861 01</td>
</tr>
<tr>
<td>ExResistTel</td>
<td>ExII-Telephone</td>
<td>red</td>
<td>112 861 0102</td>
</tr>
<tr>
<td>ExResistTel</td>
<td>ExII-Telephone ZB</td>
<td>black – without keypad and display</td>
<td>112 861 02</td>
</tr>
<tr>
<td>ExResistTel</td>
<td>ExII-Telephone ZB</td>
<td>red – without keypad and display</td>
<td>112 861 0202</td>
</tr>
<tr>
<td>ExResistTel</td>
<td>ExII-Telephone</td>
<td>black – Protection class I</td>
<td>112 862 01</td>
</tr>
<tr>
<td>Accessories</td>
<td>ExII-Additional earpiece</td>
<td></td>
<td>112 861 03</td>
</tr>
<tr>
<td>Accessories</td>
<td>ExII-Additional headset</td>
<td></td>
<td>112 861 04</td>
</tr>
<tr>
<td>Accessories</td>
<td>ExII-Loudspeaker set</td>
<td></td>
<td>112 861 05</td>
</tr>
<tr>
<td>Accessories</td>
<td>ExII-Secondary sounder</td>
<td></td>
<td>211 842 06</td>
</tr>
<tr>
<td>Accessories</td>
<td>Protection hood</td>
<td>hot galvanized, yellow</td>
<td>118 901 01</td>
</tr>
<tr>
<td>Accessories</td>
<td>Protection hood</td>
<td>stainless steel</td>
<td>118 901 11</td>
</tr>
<tr>
<td>Accessories</td>
<td>ExII-TWIN</td>
<td></td>
<td>118 833 ..*</td>
</tr>
</tbody>
</table>

*The full article number is made up by appending the colour code for the coloured cap to the article number given below.*

- transp. 11
- red 12
- amber 13
- green 14
- blue 15

Subject to change without notice - Printout 07/14
POSSIO

SVEA II
GSM Connector

- Connect your Analogue Telephone Equipment
- Fixed Landline Replacement
- Handles Fax
- Easy to Install and Manage
- Optimized for Every Country
- High Quality Voice with Cinterion Module

About SVEA II

SVEA II GSM Connector is a Fixed Cellular Terminal (FCT) that converts standard analogue voice, fax & data services into GSM services.

SVEA II fulfills all requirements for fixed line such as: national, international and mobile calls, sending and receiving fax, data transmission and dial-up connection to Internet.

SVEA II makes all well-known fixed-line services available over GSM and at the same time in an intelligent way eliminates differences between GSM and PSTN networks.

SVEA II is an easy to use product, with built-in internal GSM antenna (with possibility to connect external antenna), built-in battery backup and external power supply. It can easily be wall mounted and requires only SIM card installation.

SVEA II, among other services, includes an echo cancelling system for adaptation to different line impedance, a fixed dial system for minimizing the waiting time when dialing out and support for GSM 850/900/1800/1900 technology. CDMA version is also available.

SVEA II has a remote management system, dedicated for Network Operators, to keep control of installed units in the field and receive alarms from them. SVEA II is also equipped with a tamper alarm to prevent unauthorized usage of the unit.

LED indicator for battery backup, line status and signal level.

SVEA II is used by major operators and is perfect for mobile offices, temporary buildings and remote areas.
SVEA II as fixed line

- Two independent lines:
  a. RJ11 analogue port for ordinary phones
  b. RJ11 analogue port for fax and data (optional)
- GPRS/EDGE and CSD support
- National alignments: tones, cadence, etc
- Data transmission services V.90 and V.92-optional (ISP/server mode), V.34
- FSK/CLIP presentation
- Intelligent Quick Dial System, that route the dialed number immediately through the GSM net at the last dialed digit

Additional Features

- Easily programmable locally via PC and/or DTMF
- Protection system – 3 level security access system
- Remote Possio management system for configuration and service of all units in the field
- Fraud protection and detection system
- Built-in GSM antenna, TNC plug for external antenna attachment
- PIN code management
- Service & Network operator SIM card lock system
- Built-in battery backup
- LED indicator for battery backup, line status and signal level
- Build in Echo cancellation system for adaptation to different line impedance
- Polarity reversal line when B-answer

Connectors

1. Power plug – for power supply, converts 220V/230V voltage to 18V voltage
2. Telephone plug - RJ11 for analog telephone with DTMF or Pulse
3. Fax/modem plug - RJ11 for analog fax machine G3 or analog modem V90
4. RS232 port - for programming SVEA II GSM Connector. Only for authorized person.
5. USB port - Data port GPRS/EDGE. Contact Possio for more information.

Tech Spec

General
Quad Band GSM850/950/1800/1900 Mhz
GPRS, EDGE and CSD support
Fax Group 3, Class 1

GSM performance
Voice and emergency calls (TCH / FS)
Half Rate (HR), Full Rate (FR),
Enhanced Full Rate (EFR) and
Adaptive Multi Rate (AMR)

Output power
Class 4 (2W) for EGSM850/900
Class 1 (W) for GSM1800/1900
Class E2 (0.5W) for EDGE850/900
Class E2 (0.4W) for EDGE1800/1900

Data connectivity
EDGE class 12, max 236.8 kbps
GPRS Class 12, max 86 kbps
Input AC: 110-240V AC, 50/60 Hz
Output DC: 18V DC, 0.8AUSSD

Mechanical features
2 independent RJ11 connectors
Internal GSM antenna, 50 Ohm
External antenna connector TNC (f)
Input AC: 110-240V AC, 50/60 Hz

Output DC: 18V DC, 0.8A
Physical description
[H] 210 mm x [W] 200 mm x [D] 55 mm
1540g (incl. ext. power supply)
Operating temperature
from -10°C to +55°C
SVEA is RoHS compliant