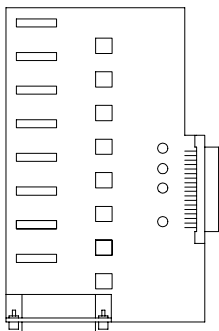


# DECT IWU A8

## User's guide



## **1. Introduction**

The InterWorking Unit A8 (IWU A8) creates the interface between 8 analogue telephone lines and 8 digital cordless lines in the DECT system. Besides that the IWU A8 secures a galvanic isolation between the DECT system and the PABX (or the public network).

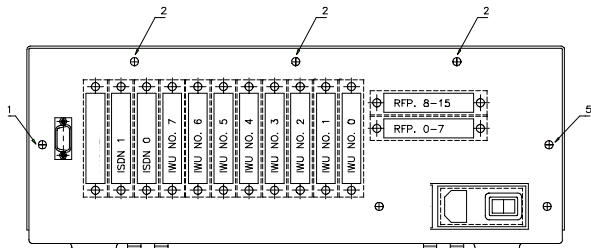
## **2. IWU features**

The IWU has interface towards the digital DECT system and interface towards an analogue PABX.  
Features towards the 8 telephone lines:

- DTMF transmission
- Single tone receiver
- Echo cancelling
- Echo suppression
- Pulse generating
- Ringing detection
- Loop break or earthing
- Galvanic isolation

### 3. Installation

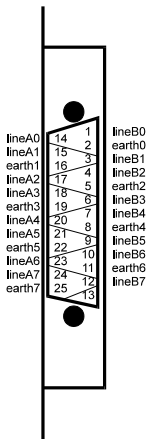
- a. Power down the CCFP.
- b. Remove the top cover by unscrewing the screws on both sides of the CCFP and the screws at the rear panel.



- c. Remove the blind cover plate in front of the first free IWU slot from the right.
- d. Insert the IWU A8 in the slot and mount the to screws from the blind cover.
- e. Repeat c - d for every IWU A8 you have to install.
- f. Put back the top cover.
- g. Mount the DP 25 plug of the IWU cable to the corresponding plug at the IWU A8 coming out at the rear panel of the CCFP and the other end of the IWU cable to your PABX extensions. It is possible to connect the DECT system parallel to corded analogue telephones.
- h. Power up the CCFP again.

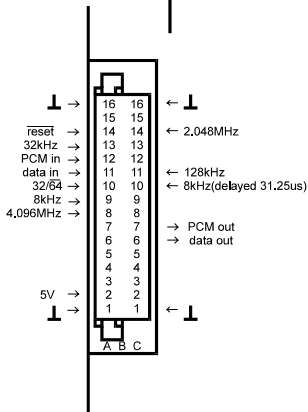
## 4. Connections

25-pole D-SUB connector  
Connection to the analogue PABX



DIN41612 2\*16 pin ABC connector  
Interface to the Central Control Fixed Part

Signals are inverted (except 32/64, which is high when IWU A8 is mounted in slot0-3 and low if mounted in slot4-7). Signal levels are 0V or 5V.



## 5. Setup commands to the IWU board

It is possible to send setup commands to the IWU at the data bus via the PC control program.

IWU SETUP commands (The PCS no. refers to the first version where the facility is available)

| FEATURE  | command | OPTIONS                                      |
|--|---------|--|
| Ring freq. 13-60Hz<br>detection 20-60Hz<br>20-30Hz   | 20      | 01<br>02<br>03                               |
| Recall mode (bitno. = channelno.)<br>Loop break = 1<br>Earth = 0   | 21      | FF<br>00                                     |
| Recall timing<br>Loop break: 70ms (PCS 9)<br>100ms<br>290ms<br>630ms<br>Earth pulse: 400ms<br>2.5s   | 22      | 10<br>11<br>12<br>13<br>01<br>02             |
| Dial mode (bitno. = channelno.)<br>DTMF = 1<br>Pulse = 0   | 23      | FF<br>00                                     |
| DTMF transmit timing active = pause<br>70ms (PCS 9)<br>80ms<br>90ms<br>100ms<br>150ms (PCS 7)<br>200ms (PCS 7)<br>250ms (PCS 7)<br>2500ms (PSC 7)  | 00      | 00<br>01<br>02<br>03<br>04<br>05<br>06<br>07 |
| Pulse timing 10Hz (interdigit 830ms)<br>make/break:<br>40ms/60ms<br>34ms/66ms  | 25      | 01<br>02                                     |
| Dial tone detect (600ms) timeout, pausetime:<br>3s<br>4s<br>6s<br>8s<br>1s (PCS 7)<br>2s (PCS 9)   | 27      | 01<br>02<br>03<br>04<br>05<br>06             |
| Dial tone detection filter<br>385-465Hz<br>345-505Hz<br>315-545Hz<br>265-600Hz   | 28      | 00<br>01<br>02<br>03                         |
| Suppressor<br>Office att. 12db<br>Office att. 9db<br>Light noise att. 12db (PCS 8)<br>Light noise att. 9db (PCS 8)<br>Heavy noise att. 12db<br>Heavy noise att. 9db<br>Extreme noise att. 12db (PCS 8)<br>Extreme noise att. 9db (PCS 8) | 5A      | 0C<br>0D<br>14<br>15<br>24<br>25<br>48<br>49 |