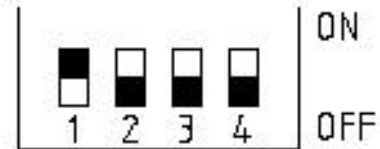


### 6.2.1 Manual settings by means of rotary switches

The manual mode allows the user to set the required channels and attenuation by means of rotary switches. With a small screwdriver, which fits through the long holes of the conversion modules, the values can be adjusted by turning the switch carefully to the desired position.

**Note:** To enable manual settings of parameters the mode switch (DIP-Switch 1) has to be changed from OFF to ON.



The DIP-Switch is mounted on the control module, located on the left side of the Repeater.

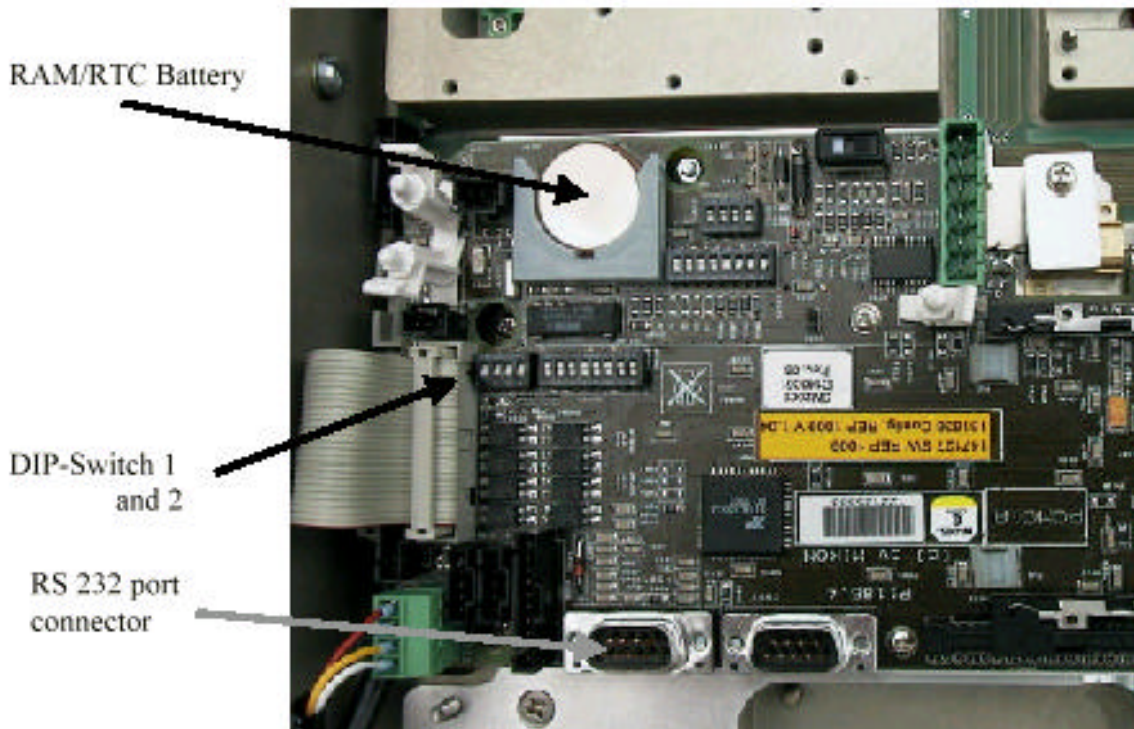


figure 6-2 Position of the DIP-Switch 1 and 2 and RAM/RTC battery

### 6.2.2 Setting of the attenuation

The gain can be set by introducing attenuation into the amplifier chain. By using a rotary switch the attenuation can be adjusted locally in the range from 0 dB to 30 dB maximum in steps of 2 dB. The attenuation can be set for the UL and DL path separately.

The rotary switches are mounted on the mother board. These switches are accessible through the long hole between the two conversion modules (see figure 6-3 Position of the rotary switches). They can be adjusted easily by means of a small screwdriver.

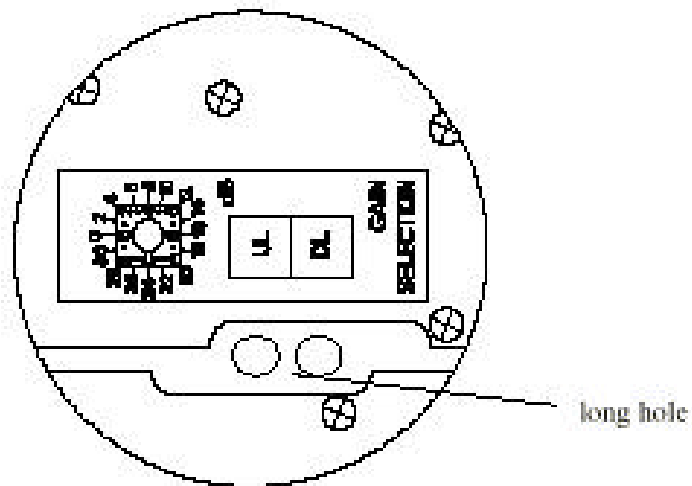


figure 6-3 Position of the rotary switches

A label on the conversion module, located next to the rotary switch, illustrates the usage of the rotary switch.

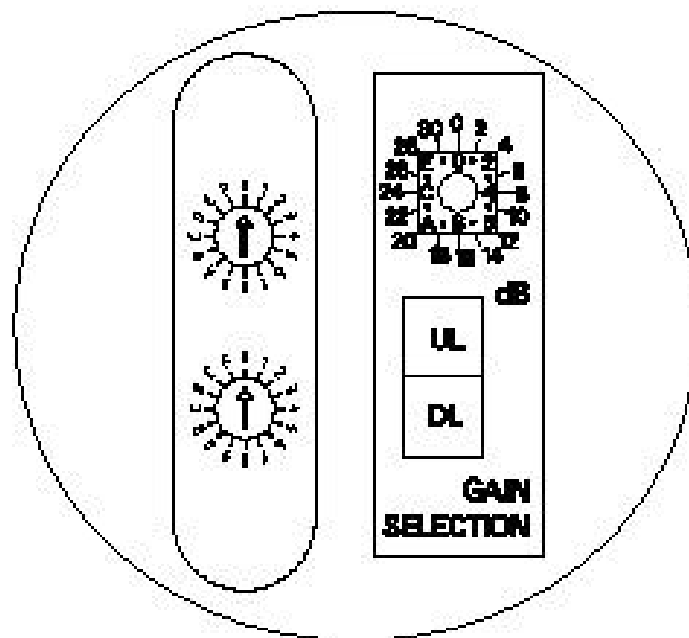


figure 6-4 Rotary switches and label

**Note:** Gain can be changed independently for the uplink and downlink path.

DIP-Switch configuration:

DIP-Switch	ON	OFF (default values)
1	manual	auto
2	remote mode	local mode
3	n.c.	n.c.
4	software download manually controlled	software download controlled by software

table 6-5 DIP-switch configuration

### 6.2.3 Settings via personal computer as terminal

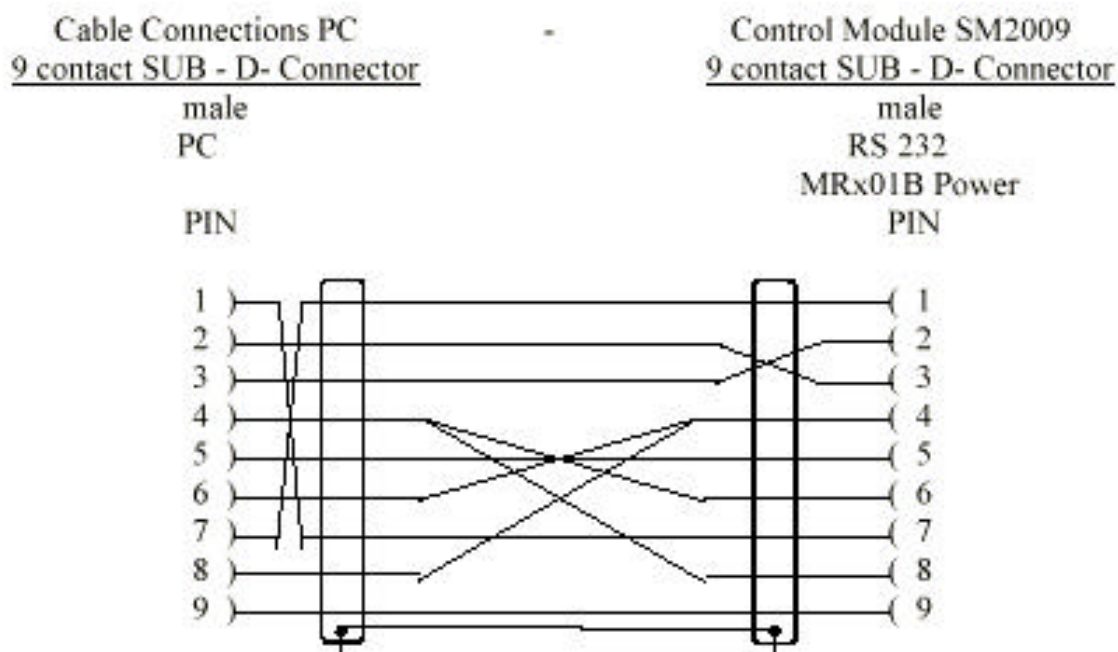
Instead of manually setting operational parameters via rotary switches it is also possible to use the functions of the control module. The local mode for settings via PC has to be set. Therefore the DIP-Switch 2 has to be at position OFF.

See figure 6-2 for  
position of DIP switch 2



A VT100 terminal or a PC with VT100 emulation can be connected to the control module SM2009 by a standard RS232 cable, if necessary in connection with an adapter 9 to 25.

See figure 6-2 for position of the RS 232 connector.



The following communication mode between control module and VT100 is set initially.

**9600 baud - 8 bit - no parity -1 stopbit**

These settings can only be changed after connection of the terminal. If all wanted settings have been initialized and a modem has to be used it will be recommended to check whether the settings comply with the capabilities of the modem and the line. Modifications are possible by software commands.

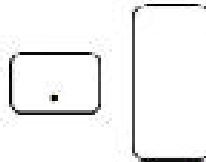
☞ **Note:**     **Settings on the Repeater can be performed after the following procedure only.**

After connecting the PC to the Repeater, following procedure is necessary to get access to the program.

```
MIKOM REPEATER MRx01B Power - SM2009 - SW: REP1007V1.11  
ENTER <.> <CR> TO LOGIN
```

1. Step:           Type the two keys ( . ) FULLSTOP and (↵) ENTER
---

You have to type the keys:



2. Step:           ENTER USER ID
----------------------------------

You have to enter:   **UserID1 ↵**

☞ **Note:**     **The input is case sensitive, no blanks. After three mistrial follows disconnection.**

3. Step:           ENTER PASSWORD
-----------------------------------

You have to enter:   **P-word1 ↵**

☞ **Note:**     **The input is case sensitive, no blanks. After three mistrials follows disconnection.**

#### 6.2.4 Settings via modem

The Repeater can be equipped with a modem. If so, the repeater will be delivered with a preset init string. This init string was used for internal tests. In case no connection can be established check the local conditions and change the init string if necessary.

The following list contains the description of the AT commands:

&F	Sets modem to factory configuration
E0	Echo OFF
S0=1	Auto answer ON; the GSM module / M1 modem goes off-hook after the first ringing signal.
S7=60	Waiting time for connection after dialing; permissible values are from 0 ... 60.
B13	Setting to 9600 bps asynchronous mode
\N6	Auto reliable operation
\N0	Standard operation, no error correction
+CBST=7,0,1	Set bearer service type to 9600 bps. Non-transparent connection (uses RLP)
X3	Not waiting for dial tone; usually used at PABX.
*P1	Switch ON phone
&K4	Enables XON / XOFF flow control

table 6-6 List of AT commands