**Function description**

The cable - TV - demodulator CDB 109 is equipped with a down converter at the input which is tuneable within the complete cable - frequency range. The two-stage level control with delayed HF - level tray is optimized for high intermodulation stability of the front-end when multichannel allocation. Thereby the constance of the A/V - signal via a further input voltage level will be assured. Notice: The cable - TV - demodulator is not designed for direct connection to the receiving antenna.

Additional functions: Remote supply of the pre-amplifier (Fig. 4)

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**Adjustment with the head end controller**

- Adjustment of the addresses at the bus extender BEB 100 and at the modules
- Activation of the programming mode of each module by selecting the line (BEB 100) and the module position (01... 15) at the head end controller(HCB 100) → yellow LED will be lit up til the beginning of the parameter adjustment
- Adjustment of the UCB 1x6 parameter(see fig.02) → green LED is lit up
- After the programming the UCB 1x6 will be automatically switched into the operating status → yellow LED lights up briefly / green LED is lit up

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**Adjustment with the PC / Laptop**

- Condition for the remote programming is an “online - connection” after IP - standard and an ethernet connection at the PC / Laptop
- Adjustment of the line / position addresses at the bus extender BEB 100 as well as at the modules
- At the head end controller HCB 100 IP - address input (e.g. 192.168.001.001)
- For “direct connection” between a PC and HCB 100 use a crossed patch cable (RE 45)
- For connection over a deviation use an uncrossed patch cable
- HTML - browser start-up and put in IP - address as target address
- If connected correctly the HTML - control surface at the PC will open up and a green LED (LINK) at the HCB 100 will be lit up
- All adjustment of the modules are specified at the control surface
- a green LED (LINK) at the HCB 100 will be lit up

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The manual instructions of the head end controller HCB 100 and the bus extender BEB 100 have to be considered!
TECHNICAL DATAS

TV - Input
Frequency range 47 ... 862 MHz
AGC - level range 12 ... 90 dBµV
Impedance 75 Ω
Nominal input level 68 dBµV
Connector F - socket
TV/Norm B/G; D/K; M/N; I; L
Noise figure <10 dB
Preamplifier remote supply 12 V / 400 mA

Video - Output
Output voltage 1 V
Impedance 75 Ω
Connector BNC - socket

Audio - Output
Level (at 600 Ω) 6 dBm (1,55 V eff)
Output impedance <30 Ω
Connector Socket / DIN 45326/ IEC 130 - 9 - 20

Physical information
Dimensions (L x W x H) 50 x 276 x 148 mm
with 19" - adapter 50 x 301 x 148 mm
Weight 1.215 g

Operating parameter
Voltage / Current 12 V (±0.2 V) / 250 mA
Ripple of the supply voltage <10 mV

Environmental conditions
Temperature range -10 ... +55 °C
Relative humidity ≤80 % (not condensing.)
Mounting method vertical
Mounting location squirting- and dripping water protected

Delivery contents
1 x BUS connector
1 x Audio cable ASK 525
1 x Video cable VVK 526

HEAD END BUS STRUCTURE

Additional functions
Remote supply of a pre-amplifier

Due to the remote supply of the pre-amplifier without an own voltage supply the 12 V - operating voltage of the converter can be switched over at the TV - RF - input socket.
To do so the plug in bridge at the plug in field "VV: +12 V" (ST 1) has to be pluged on to position "ON" after opening the device (left cover) at the tuner- circuit board.

Fig. 03

The number of the possible module connections (00 ... 15) to a BEB 100 depends on the total power consumption of this line!

Fig. 04

Fig. 05

Allocation of the Audio - socket
1 Stereo Links
2 Schirmung / Masse
3 Stereo Rechts
4 Masse
5 Masse
6 Steuerleitung Kontakt 1 (gebrückt mit Pin 8)
7 Steuerleitung Kontakt 2 (offen)
8 Steuerleitung Rückleiter (Masse)

SECURITY AND OPERATING INSTRUCTIONS

When assembling, starting-up and adjusting the modules, it is necessary to consider the system specific references in the manual instruction!
The modules may only be installed an started up by authorized technical personnel!
When assembling the modules into the receiving points, the adherence of the EMV regulations is to be secured!
The assembly and wiring have to be done without voltage!
All active modules may only be operated with the head end controller HCB 100 or bus extender BEB 100!
The main voltage for all power supply units is 230 V, 50 Hz.
With all work the defaults of the DIN EN 50083 have to be considered!
Especially the safety relevant execution of the DIN EN 50083/1 is necessary!

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