Hoellstern Remote Network:

Hoellstern amplifiers can be remote-controlled and monitored through a computer via network.

In connection with the Konfigurator2 software two interfaces allow a realtime access to all built-in amplifier functions and parameters:

- Configuration of the DSP technology (DSP Softengine™)
- Configuration of all channels (free and Hoellstern loudspeaker library)
- Additional free delay and filter functions
- Input / output routing
- Level
- Peak and RMS limiter
- Status (general and channel-specific)
- Service and maintenance

The RS-485 and RS-232 interface signals are output at the D-sub socket on the amplifier rear panel.

To establish an RS-485 network will require at least the following hardware components:

- A Hoellstern amplifier
- A D-sub to 2 x XLR-3 splitter
- An RS-485 bus terminating resistor (as XLR-3 plug)
- A Hoellstern USB-RS-485 converter with XLR-3 connector
- A computer (Windows or Mac)

The accessories are available from Hoellstern Amplifiers.

Network layout:

The RS-485 bus is slaved through from amp to amp (ring topology). A correct RS-485 bus termination is achieved with a terminating resistor at the end of the RS-485 bus line.

The Konfigurator2 software can control and monitor several network adapters (COM ports) simultaneously.

Thus multiple RS-485 buses can be operated across several groups within one user interface and project (star topology).

Each RS-485 network hub can address 32 separate amplifier IDs. With 4-channel amplifiers this results in 128 monitored and controlled audio channels.

RS-485 bus lines:

For an RS-485 bus we recommend the use of shielded cables with twisted pairs and a line impedance between 100 and 120 ohms:

- Data line in accordance with CAT5 F/STP or S/STP resp. Or higher category (line impedance 100 ohms)
- Digital audio lines in accordance with AES / EBU standard
- Control lines from lighting technology in accordance with DMX512 specifications (line impedance 110 ohms)
- Special CAN bus lines (STP – Shielded Twisted Pair) with a line impedance of 120 ohms. Note: The CAN bus is electrically based on the RS-485 standard.

Note: Practice has shown that with max. cable lengths of 50 m and maybe more the transmission of RS-485 signals via a terminated standard microphone cable or multicore cable will typically work well. The deterministic Hoellstern bus protocol allows a safe data connection.

D-sub to 2 x XLR3 splitter (RS-485 bus):

USB to 1 x XLR3 RS-485 converter:

1 x XLR3 RS-485 bus terminating resistor:

Notes:
All information were provided to the best of our knowledge and belief. Technical specifications, dimensions and weights are no guaranteed features. ASID GmbH reserves the right to changes regarding the actual state of the art.
Version number: 001, last update 2013 / 01.

Contact:

ASID GmbH
Gewerbestrasse 5
D-79285 Ebringen / Germany
Phone: +49 (0) 7664 61188-0
Fax: +49 (0) 7664 61188-99
web: www.hoellstern.com
web: www.hoellstern.eu

