

Problems during data transmission? Afraid of damages to the serial port?

No problem with Expert OptoBridge!

DESCRIPTION

Expert OptoBridge allows the galvanic separated connection of devices with a serial port (RS232) to the serial port (RS232) of the PC. Because of the electric isolated transmission a maximum protection against breakdown and damage to the serial port is ensured. Sometimes this module can replace a much more expensive modem in an industrial environment.

Typical problems which can lead to troubles with the serial port and data tansmissions are:

- Over voltage caused by distant lightning
- Over voltage caused by electrostatic discharge
- Ground shift because of different main supplies
- Hazard voltages on ground wires caused by electric engines or similar consumers



TECHNICAL DATA

Besides the two data lines (receiver and transmitter data) two handshake lines are supported in both directions. The connections to *Expert OptoBridge* are corresponding to the serial port of an industrial standard PC (see also circuit diagram).

Interface: 25 pin RS232 connectors

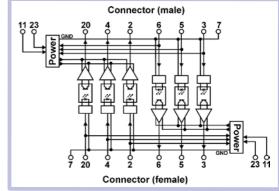
(male and female)

Input voltage: -15V to -6V for logical 1 /

+15V to +6V for logical 0

Data transmission rate: 300 to 115,000 Bits/s

♦ Dimensions:
64 x 54 x 16 mm (L x W x H)



Circuit diagram of Expert OptoBridge

CONNECTION

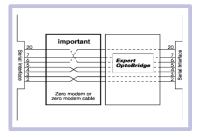
After having connected *Expert OptoBridge* to the serial port it can be used immediately. For data transmission a zero modem must be used (see box). *Expert OptoBridge* can be used without external power supply if all three driving data lines are connected at each side.

The pins of the driving data lines are:

- ◆ 20, 4, 2 on the female connector
- 6, 5, 3 on the male connector

Possibilities to apply external voltage:

- Voltage between pin 11 and pin 23: Any voltage between ±7V and ±14V, without connecting power to the GND
- Pin 11 or 23, any voltage between ±7V and ±14V, related to GND (GND: pin 7 - pin 15 possible)



Connection of $\it Expert\ OptoBridge$

CONTACT

Gude Analog- und Digitalsysteme GmbH Eintrachtstrasse 113 50668 Koeln Germany



Phone: +49-221-912 90 97 Fax: +49-221-912 90 98 E-Mail: mail@Gude.info Internet: www.Gude.info