

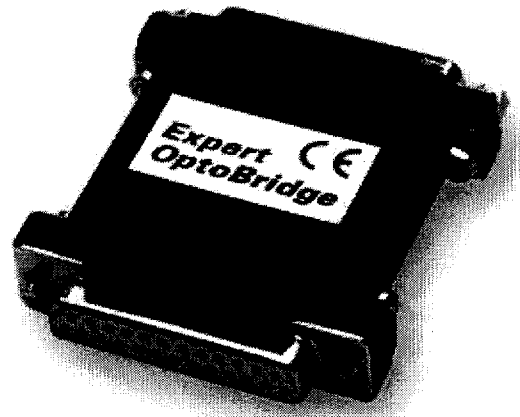
Expert OptoBridge

Optical Bridge for RS232 and V.24

The **Expert OptoBridge** solves problems with serial data transmissions like:

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

The **Expert OptoBridge** is a module for an electrically isolated data transmission for RS232 and V.24 ports. In an industrial environment sometimes this module can replace a much more expensive modem. The two data lines (receiver and transmitter data) and two handshake lines are supported in both directions.



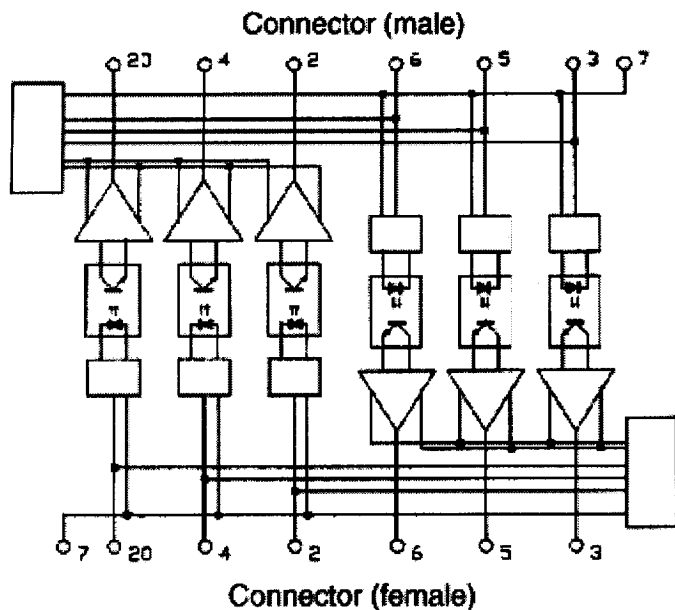
The connections to the **Expert OptoBridge** are corresponding to the serial port of the industrial standard PCs (see figure). Sensational is also the high data rate of 115.000 Bit/s! This allows the use of special application software which needs the highest speed of the serial port.

The **Expert OptoBridge** operates without an external power supply if at least one driven data line is connected on each side.

Technical Data:

- 25-pol. connectors (male and female) for RS232 and V.24
- Isolation voltage: max. 2500 V rms
- Input voltage:
 - -15 V to -6 V for logical 1
 - +15 V to +6 V for logical 0
- Data rate: max. 115.000 Bit/s

Block Diagram:



Connecting the Expert OptoBridge for data transmission:

