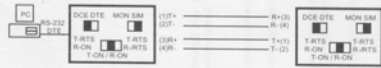
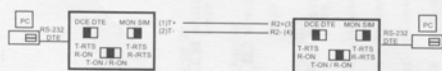


Application Example Anwendung Beispiele Exemple d'application

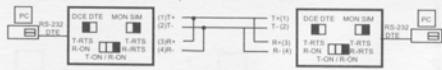
- Point to point with 4 wires, full duplex
- Punkt zu Punkt mit 4 Drahten, voll duplex
- Point à point avec 4 circuits, duplex complet



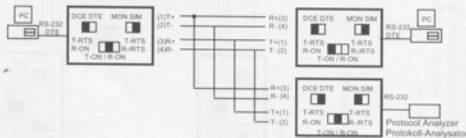
- Point to point with 2 wires, simplex
- Punkt zu Punkt mit 2 Drahten, einfach
- Point à point avec 2 circuits, duplex simplex



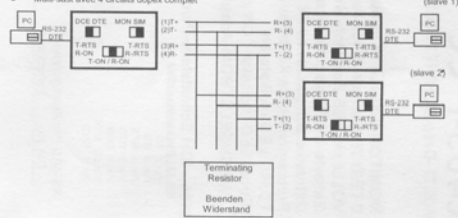
- Point to point with 2 wires, half duplex
- Punkt zu Punkt mit 2 Drahten, halb bidirektional
- Point à point avec 2 circuits, demi duplex



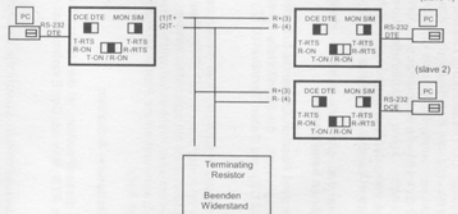
Monitoring Ueberwachung Monitor



- Multi-drop with 4 wires, full duplex
- Multi-drop mit 4 Drahten, voll duplex
- Multi-sélect avec 4 circuits duplex complet



- Multi-drop with 2 wires, simplex
- Multi-sélect avec 2 circuits simplex



The IC485-1 is a compact, self-contained interface converter for conversion between the V.24/RS-232 and RS-422/485 communication standards. The IC485-1 consumes very little current and is therefore able to be powered from the V.24/RS-232 interface. If the application of the IC485-1 does not have interface power support, the converter may also be powered via an external AC power adapter.

The IC485-1 features three slide switches that provide the following functions:

DCE/DTE: This two position slide switch enables the user to switch the interface between data communication (DCE) and data terminal (DTE) modes.

MON/SIM: The normal setting for this two position switch is the Simulate (SIM) mode. The Monitor (MON) mode is a special mode whereby the interface converter can be attached non-obtrusively between an existing network and a protocol analyzer.

Three position slide switch:

T-RTS, R-ON: In this position, the transmitter is enabled when RTS is active. The receiver is always enabled.
T-ON, R-RTS: In this position, both the transmitter and receiver are enabled.

T-RTS, R-RTS: In this position, the transmitter is enabled when RTS is active. The receiver is enabled when RTS is inactive.

APPLICATION EXAMPLES

loop back test



loop back test



IC485-1 (IC485/IP-1)
MULTI-DROP INTERFACE CONVERTER



- MONITOR/SIMULATION selectable
- DTE/DCE device setting selectable
- FULL/HALF duplex mode selectable
- Implements low priced LAN
- Supports up to 32 users
- Programmable control by RTS/CTS
- TD/RD LED indicators
- Power LED indicator

RS-232C pin configuration

- Pin 2: RD
- Pin 3: RTD
- Pin 4: RTS
- Pin 5: CTS
- Pin 6: DSR
- Pin 7: DTR
- Pin 8: GND

RS-485 pin configuration

Pin No.	Simulation	Monitor
1	T+	RT+
2	R-	RT-
3	R+	R2+
4	R-	R2-

Meaning of slide switches:

DCE/DTE: The converter is in DCE mode.

DTE/DTE: The converter is in DTE mode.

MON/SIM: The converter is in simulation mode.

MON/SIM: The converter is in monitor mode.

T-RTS, R-ON: The transmitter is enabled when RTS is active.

T-ON, R-RTS: The receiver is always enabled.

T-RTS, R-RTS: Both the transmitter and receiver are always enabled.

T-ON, R-ON: The transmitter is enabled when RTS is active. The receiver is enabled when RTS is not active.

T-RTS, R-ON: The transmitter is enabled when RTS is active. The receiver is not active.