



C1-45

RS422/RS485 repeater (9-36 Vdc, DIN rail)

The C1-45 is a DIN rail mounting device that ensures signal regeneration where RS422 or RS485 links exceed the limits imposed on cable length or on the number of connected devices; it can also be used to set up star networks and optimize the lay out of cables or to convert a line from RS422 to RS485. Microswitches, with direct access, allow the user to set: operation mode (automatic or manual), line interface (RS422 or RS485), baud rate (from 1.2 to 115 kbit/s) and bias and terminator resistors. A triple optical isolation galvanically isolates the power section and the two line interfaces.

Power supply	From 9 to 36 Vdc, 100 mA @ 24 Vdc
Power supply protections	Against polarity inversion
Operating environment	Temperature: from 0 to 70 °C, relative humidity: from 25 to 85 % (non condensing)
Operating atmosphere	Without corrosive gas
Storage temperature	From -20 to 80 °C (without ice)
Electromagnetic compatibility <input type="checkbox"/>	<ul style="list-style-type: none"> • Radio frequency emissions: EN55011 Group 1 Class A • Conducted emissions: EN55011 Group 1 Class A • Radio frequency immunity: ENV50140 10 V/m AM from 80 to 1000 MHz • Conducted immunity: ENV50141 10V/m AM from 0.15 to 80 MHz
IP grade	Connectors: IP20, enclosure: IP20
Communication speed	1200, 2400, 4800, 9600, 19200, 38400, 57600, 115200 baud
485/422 lines protections	Against surge, short circuits, voltage peaks
Insulation	<ul style="list-style-type: none"> • Between 485/422 sections: 1000 V • Between power supply and 485/422 sections: 500 V
Propagation delay	Less than 1 μ s
485 line release delay	Two characters after the last bit transmitted
Bit distortion	Less than 1 %
Pull-up and pull-down resistors	680 Ω individually selectable
Terminating resistors	120 Ω individually selectable
Connection type	Screw type for maximum AWG 12 wire
Signalling leds	Power on, tx, rx, line busy
Mounting mode	DIN EN50022 rail
Dimensions	80L x 80H x 50P mm
Weight	150 g
Ordering code	C1-45