

EXTENSION OF FIELD BUS NETWORKS



The SC232 converts an RS232 interface into RS485.

Depending on the model the RS485 connection is isolated or not.

The RS485 line is matched and polarised by built-in resistors and can be selected by switch.

The SC232-6 model facilitates the use of GSM modems with PLCs: It provides power to the GSM, connects to it using a RS232 cable, is equipped with an on-off switch for access security, and converts the RS232 interface into RS485.

Characteristics

- RS485 isolation 2500 V (SC232-4)
- Automatic RS485 shifting
- Built-in matching and polarisation resistors
- PROFIBUS DP, MODBUS, DH485, UNITELWAY, SYSMACWAY
- DIN rail mounting

Applications

Extension of RS485 Fieldbus network.

SC232 RS232/RS485 converter

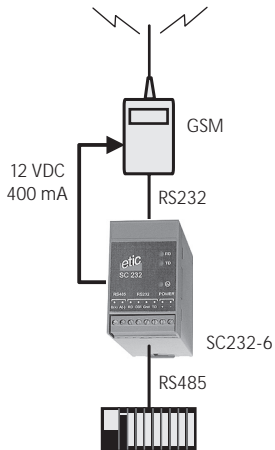
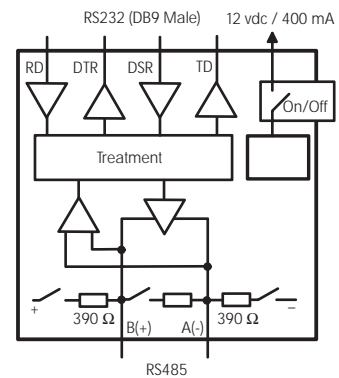
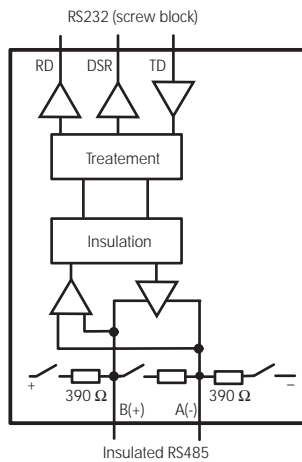
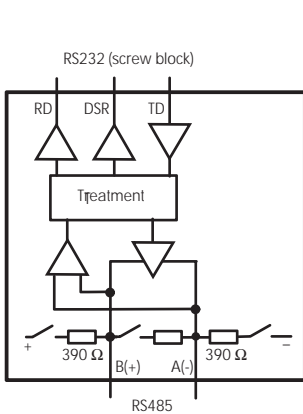
SC232-3



SC232-4



SC232-6



Caractéristiques

Dimensions 72 x 45 x 105 mm (h, l, d)

Isolation See table below

Electrical safety EN 60950

Supply voltage See table below

Consumption 50 mA at 24 VDC

Operating T° 0°C / + 60°C dry air

RS485 line polarisation and matching

- 2-wire RS485 on screw-clamp connection
- Selection of the 4 matching resistors by switch :
 - UNI-TELWAY: 120 Ω + 1 nF
 - PROFIBUS DP: 220 Ω
 - PROFIBUS DP: 150 Ω
 - MODBUS: 620 Ω
- Selection of the polarisation R. by switch : 390 Ohm

Number of subscribers 32 / RS485 line

Data rate / frame ■ Any data rate and data frame up to 115,2 kb/s

Configuration Microswitches

Range	
cable diam. 0,4 mm	50 nF/Km
Data rate	Km
< 4 800 b/s	2,0
9 600 b/s	1,5
19 200 b/s	1,2
38 400 b/s	1,0
57 600 b/s	1,0
115 200 b/s	0,7

SC232-•	3	4	6
Supply voltage (VDC)	9-40	9-40	15-40
DB9 M RS232 connector			•
RS232 screw block	•	•	
RS485 isolation (2500 V)		•	
RS485 microswitches	•	•	•
Supplies 12 VDC - 400 mA		•	
ON / OFF switch			•