

# RS485 Line Isolator SI485



The SI485 has 2 functions : It isolates a RS485 2-wire line and allows the matching and polarisation of the 2 RS485 lines.

It is powered by 9 to 40 VDC and can be mounted on a 35mm DIN rail.

No configuration of the data rate or the data frame is necessary.

## Characteristics

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



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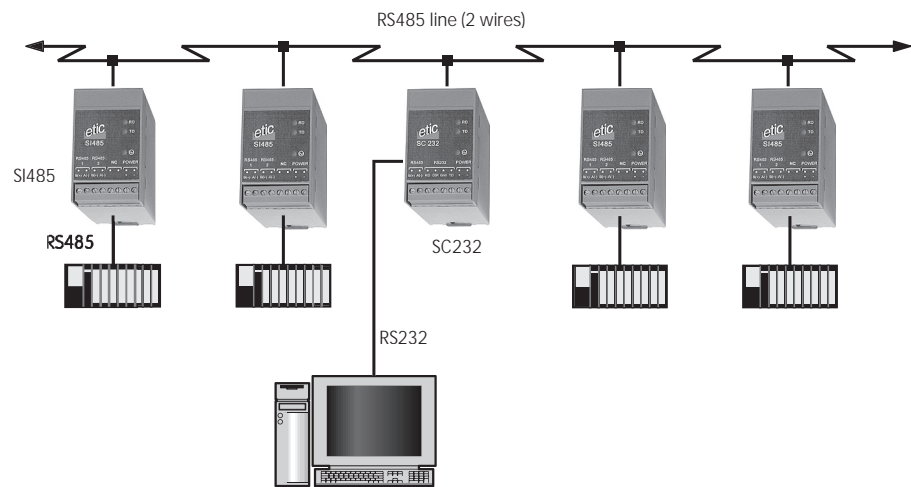
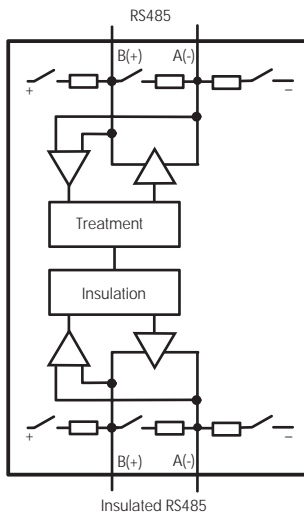
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## Applications

Extension of RS485 Fieldbus network

# SI485

# RS485 line isolator



## 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

## Characteristics

Dimensions 72 x 45 x 110 mm (h, l, d)

Isolation 2500 Vrms

Electrical safety EN 60950

Supply voltage 9 to 40 VDC

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 187,5 kb/s

Configuration Microswitches

## Designation

RS485 line isolator

## Reference

SI485