

# Current and Voltage Controls Serial Communication Line amplifier and driver Type SIU-DIN 8585

CARLO GAVAZZI



- Serial communication line amplifier and driver
- Repeater for RS 485 signals
- Increases the distance between RS 485/RS 422 and PC with 1200 meters per unit
- Increases the maximum number of instruments/devices connected to the network by 32 per SIU-DIN 8585
- For DIN-rail mounting
- Degree of protection: IP 40
- Full overvoltage protection
- Wrong-line-connection protection

## Product Description

SIU-DIN is a line amplifier for DIN-rail mounting that allows repeating the RS 485 signal present at the input terminals as an output signal. This function allows you to solve two kinds of problems depending on the type of connection:

1) Increase the distance between the instruments/devices equipped with RS 485/RS 422

serial communication port and the personal computer. The distance is increased by approx. 1200 m for every repeater used.

2) Increase the maximum number of instruments/devices connected to the network. The number of instruments/devices connected to the network is increased by 32 for every repeater used.

## Ordering Key

**SIU-DIN8585 D**

Model \_\_\_\_\_  
Power supply \_\_\_\_\_

## Type Selection

### Power supply

<b>A:</b> 24 VAC, -15% +10%, 50/60 Hz <sup>1)</sup>	<b>C:</b> 115 VAC, -15% +10%, 50/60 Hz <sup>1)</sup>
<b>B:</b> 48 VAC, -15% +10%, 50/60 Hz <sup>1)</sup>	<b>D:</b> 230 VAC, -15% +10%, 50/60 Hz (standard)

<sup>1)</sup> On request

## Input/Output Specifications

<b>Indication</b> Power-on	LED, Red
<b>Input</b> Signals Working mode	EIA RS 485, EIA RS422 2 or 4 wires communication, DIP-switch selectable
Line Bias	TX+, TX-, DIP-switch selectable
Line termination	DIP-switch selectable
<b>Output</b> Signals Line Bias	EIA RS 422 TX+, TX-, DIP-switch selectable
Line termination	DIP-switch selectable
<b>Baud rate</b>	Max. 19200 Baud
<b>Protection</b> Overvoltage Connections	On all input/output lines All inputs/outputs protected against wrong line connections
<b>Insulation</b>	Not insulated between input and output, 4 kV between input/output and power supply (the insulation between field hardwares and personal computer is obtained by means of SIU-PC85)

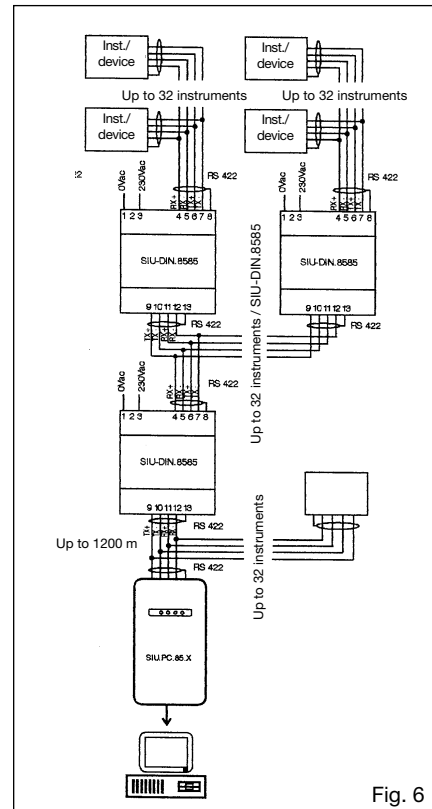
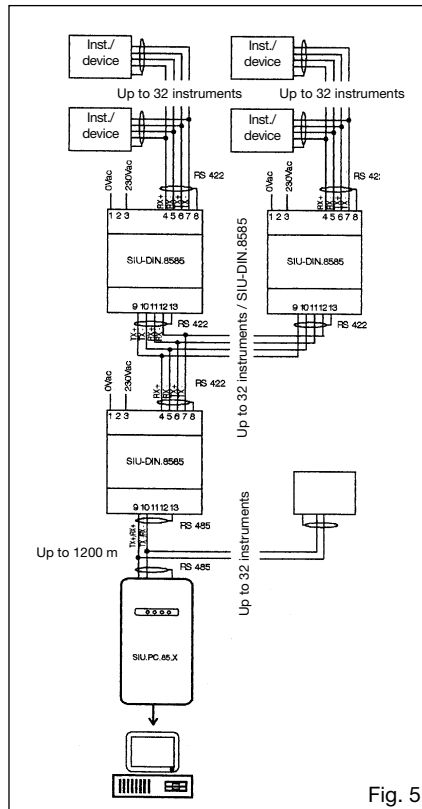
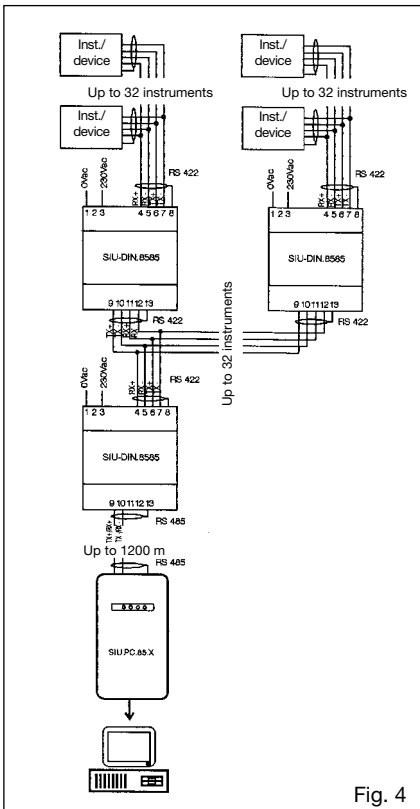
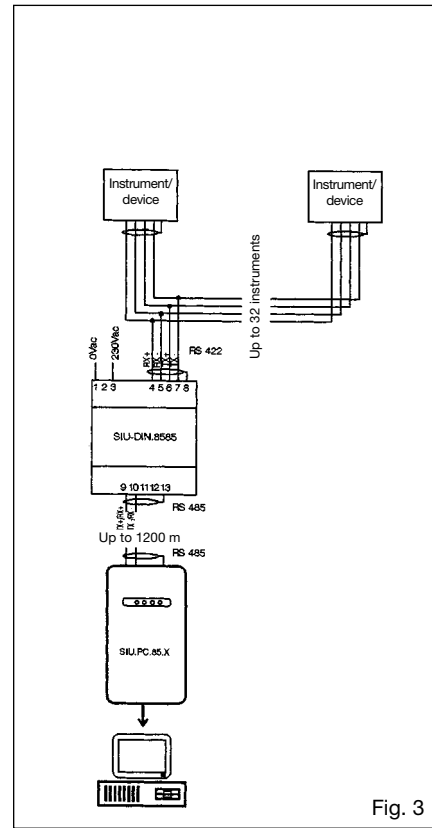
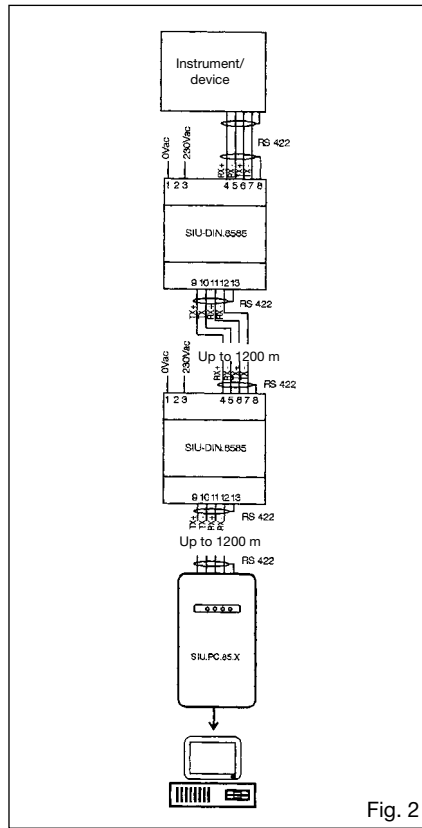
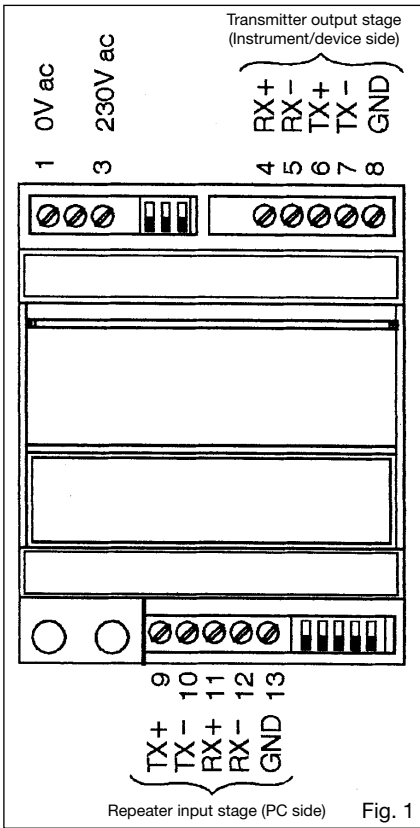
## Supply Specifications

<b>AC supply</b>	230 VAC, -15% +10%, 50 /60 Hz (standard) 24 VAC, 48 VAC, 115 VAC, -15% +10%, 50/60 Hz (on request)
<b>Power consumption</b>	4 VA

## General Specifications

<b>Operating temperature</b>	0 to 50°C (32 to 122°F) (R.H. < 90% non-condensing)
<b>Storage temperature</b>	-10 to 60°C (14 to 140°F) (R.H. < 90% non-condensing)
<b>Insulation reference voltage</b>	300 V <sub>rms</sub> to ground
<b>Dielectric strength</b>	4000 V <sub>rms</sub> for 1 minute
<b>EMC</b>	EN 50 081-1, EN 50 082-1
<b>Safety standards</b>	IEC 61010-1, EN 61010-1, VDE 0411
<b>Connector</b>	Screw-type
<b>Housing</b> Dimensions	4 DIN modules 89 x 71,5 x 58,5 mm
Material	ABS, self-extinguishing: UL 94 V-0
<b>Degree of protection</b>	IP 40 (Screw terminal block area excluded)
<b>Weight</b>	250 g approx. (packing included)

# Wiring Diagrams



## Dimensions

