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SENECA S117P1 Asynchronous Serial Converter RS232 Installation Guide
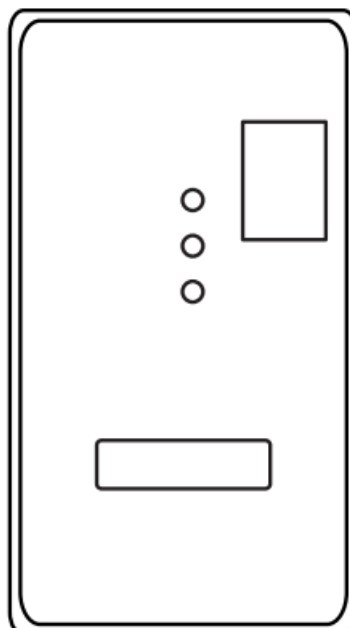
Contents

SENECA S117P1 Asynchronous Serial Converter RS232

PRODUCT DESCRIPTION

The S117P1 product is a converter capable of realizing an asynchronous RS232 serial, an RS485 serial or a TTL, using a USB port on the PC. Thanks to the driver provided, the serial interface is treated by the operating system as a standard system serial port, allowing the use of the product directly through any software capable of communicating with the standard serial ports provided by the operating system (COM1, COM2, etc). The RS232, RS485 and TTL ports are also electrically isolated from the USB port, allowing eliminating many problems of electrical noise that can occur for example when the connected equipment is very far from the PC. The S117P1 has an internal power supply of 12 Vdc @ 100 mA available on the terminals.

MODULE LAYOUT

- **DIMENSIONS LxHxD:** 90 x 50 x 25 mm
- **WEIGHT:** 55 g

SIGNALS VIA LED ON FRONT PANEL

LED	STATUS	LED meaning
PWR Green	ON	The device is powered correctly
RX Red	ON flashing	It lights up every time the instrument receives data through the RS485 / RS232 port
TX Red	ON flashing	It lights up every time the instrument transmits data through the RS485 / RS232 port

TROUBLESHOOTING

If problems occur with the use of the converter, check the following points:

PROBLEM	CHECK
The "POWER" LED does not come on	Check that the PC's USB socket provides for the supply of the 5 V needed to power the instrument
The "Rx" led remains on continuously	Check that the RS485 or RS232 cables have not been swapped
The received data is incorrect	Check the communication speed

PRELIMINARY WARNINGS

The word WARNING preceded by the symbol indicates conditions or actions that put the user's safety at risk. The word ATTENTION preceded by the symbol indicates conditions or actions that might damage the instrument or

the connected equipment. The warranty shall become null and void in the event of improper use or tampering with the module or devices supplied by the manufacturer as necessary for its correct operation, and if the instructions contained in this manual are not followed.
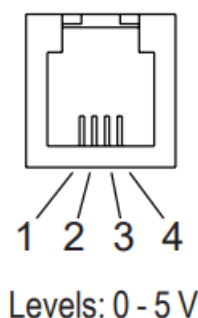
- WARNING: The full content of this manual must be read before any operation. The module must only be used by qualified electricians.
- The module must be repaired and damaged parts replaced by the Manufacturer. The product is sensitive to electrostatic discharges. Take appropriate measures during any operation.
- Electrical and electronic waste disposal (applicable in the European Union and other countries with recycling). The symbol on the product or its packaging shows the product must be surrendered to a collection centre authorized to recycle electrical and electronic waste.

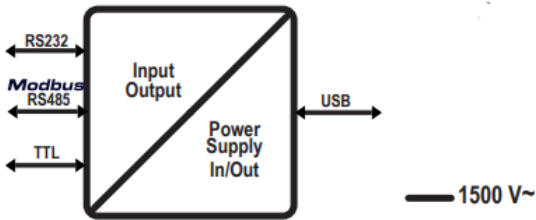## GENERAL SPECIFICATIONS

Use with:

- Windows 10/8.1/8/7, Vista, XP
- Windows Server 2016, 2012 R2, 2012, 2008 R2, 2008, 2003
- Linux kernel 3.0.0-19 or later
- Mac OS X 10.3 or later, Mac OS 9, Mac OS 8
- Windows Mobile 6.5/5, Windows Mobile 2003SE/2003
- Windows CE 2013, Windows CE 7.0/6.0, Windows CE 5.2-4.2
- Compatible with standard USB port 1.0, 1.1 and 2.0.
- Insulation between USB and RS232 or TTL or RS485: 1500 V
- 12 Vdc @ 100 mA available from terminals
- Supply through the PC USB.
- Baudrate: from 300 bps to 250 kbps
- RS232 serial communication.
- RS485 serial communication, 32 nodes maximum.
- Possibility of multiple connection of several S117P1 units on the same PC.
- Three LEDs to display the status of the instrument's activity.
- **RS232 connections:** DB9 connector
- **TTL connections:** RJ-10 connector

TTL (RJ10) CONNECTOR

Levels: 0 - 5 V

PIN INDEX	DESCRIPTION
1	Ground
2	Rx
3	Tx
4	Power

TECHNICAL SPECIFICATIONS

STANDARDS	**EN61000-6-4** Electromagnetic emissions, industrial environment. **EN61000-6-2** Electromagnetic immunity, industrial environment. **EN61010-1** Safety				
INSULATION	**RS232** **RS485 T TL**	**Input Outp ut**	**Powe r Sup ply In/Out**	**USB**	**WARNING** the maximum working voltage between any termi- n al and ground must be less than 50Vac/75Vdc RS232 / Modbus RS485 / TTL / Input Output / Power Supply In/Out / USB / 1500 V~ **1500 V~**
	Temperature: -20 ÷ + 65°C				
ENVIRONMENTA L CONDITIONS	*Humidity*: 10% ÷ 90% non condensing. *Altitude:* up to 2000 m above sea level *Storage temperature:* -40 ÷ + 85°				

	Protection degree: IP20.
ASSEMBLY	IEC EN60715, 35mm DIN rail through terminals.
CONNECTIONS	5-way removable screw terminals, pitch 5 mm
POWER SUPPLY	Through PC USB port.
SERIAL COMMUNICATION	RS232 (DB9-M), RS485 (5 poles), TTL (RJ10), USB 1.0, 1.1, 2.0
BAUDRATE	1200 bps,115200 bps.

INSTALLATION REGULATIONS

As regards the S117P1 instrument, there are no particular precautions to follow, except that of using a shielded cable for the RS232 and RS485 lines for long connections or connections in noisy environments.

TERMINAL POSITION AND DESCRIPTION

The drawing below shows the functions of the removable screw connector on the side of the S117P1:

PIN INDEX	DESCRIPTION
1	Power Supply Ground
2	Max: + 12Vdc @ 100 mA
3	A
4	B
5	Modbus Ground

CONTACT INFORMATION

Technical support	support@seneca.it	Product information	sales@seneca.it

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For manuals in other languages and configuration software, visit:
www.seneca.it/products/s117p1

Documents / Resources

SENECA S117P1 Asynchronous Serial Converter RS232 [pdf] Installation Guide
S117P1 Asynchronous Serial Converter RS232, S117P1, Asynchronous Serial Converter, Converter, Asynchronous, RS232

References

- Ⓢ **S117P1 | Serial / USB Converters | SENECA**