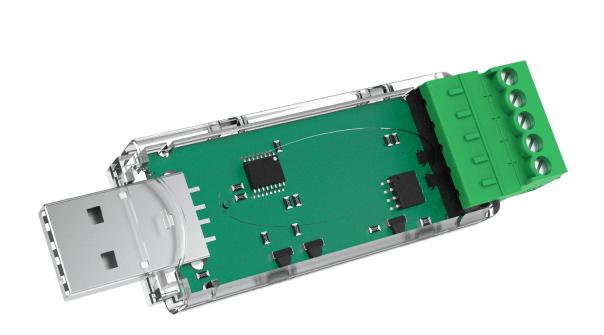


Q-USB485













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0-USB485 PRODUCT MANUAL





SAFETY WARNINGS AND CAUTIONS

The following warnings and cautions must be observed to ensure personal safety and prevent damage.



Death or serious injury may result from failure to heed this warning.



It is necessary to comply with national regulations when installing and picking materials for power lines.



Material damage or serious personal injury may result from failure to heed this warning.



Repairs and modifications must be carried out only by the manufacturer. It is forbidden to open the case and make any



The manufacturer **declines all responsibility** for electrical safety in the event of improper use of the equipment.



changes to the device. Tampering with the device will invalidate the warranty.

The product described in this document may only be used for



It is essential to read the entire contents of this manual before carrying out any work.

Installation and commissioning must be carried out by qualified personnel only.

Before commissioning, make sure that:



the specified application. The maximum performance data and environmental conditions specified in the product data sheet must be observed. Proper transport and storage, as well as professional assembly, installation, handling and maintenance are required for the correct and safe operation of the device.

 the maximum values for all connections are not exceeded; refer to the product data sheet;

Use under ambient conditions other than those specified, application of signals or voltages other than those specified, may cause significant deviations from the specified measurement tolerances, which may be irreversible.

- the connection cables are not damaged or live during wiring;
- the direction of current flow and phase rotation are correct.

During installation, ensure that a switch or circuit-breaker is near the product and easily accessible.

The unit must be uninstalled if safe operation can no longer be guaranteed (e.g. visible damage). Disconnect all connections in this case. The unit should be returned to the manufacturer or to an authorised service centre for repair.



Although the contents of this document have been checked for accuracy, it may contain errors or inconsistencies and we cannot guarantee its completeness or accuracy.



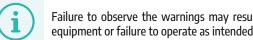
This document is subject to periodic revision and updating. QEED reserves the right to make changes to the product and/ or its technical documentation at any time in the interests of continuous quality improvement. Always consult the latest version of the documentation available on the website:



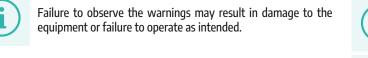
WARNING: High-intensity magnetic fields may alter the values measured by the transformer. Avoid installation near: permanent magnets, electromagnets, or iron masses. If irregularities are detected, reposition or move the unit to a more suitable location.



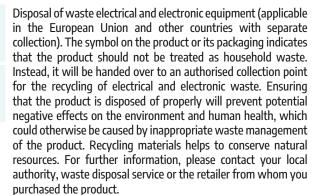
If you find any errors or missing information in this document. please notify us by e-mail to:



technical@geed.it









Please note that the information on the nameplate must be observed.



Q-USB485PRODUCT MANUAL

PRODUCT OVERVIEW

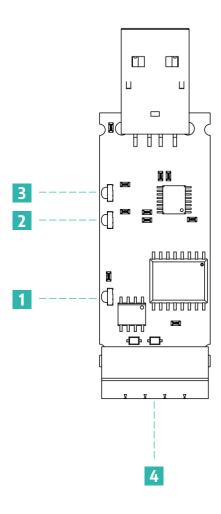
The Q-USB485 is a 5kV isolated serial converter based on the FTDI USB chip.

Ease of use is ensured by Windows certified drivers that download automatically when the PC is connected to the network.

The Q-USB485 provides a secure connection to any Modbus RTU device via RS485.

Features

- 500kbit/sec max baud rate
- Max. common mode voltage (A+ / B-, inputs outputs), -60V/+60V
- Removable connectors
- Status LEDs: TX, RX, power supply



- 1 Power supply LED
- 2 TX LED
- 3 RX LED
- 4 Connection terminal

Q-USB485PRODUCT MANUAL



TECHNICAL SPECIFICATION

Electrical characteristics

Rated voltage	5V @100mA from PC
Connection mode	USB

Communication characteristics

Interface type	RS485 Serial interface
Protocol	Modbus RTU
Baudrate	500 kbit/s max
Addresses	1÷247

General data

Working temperature	-15÷60° C
Storage temperature	-40÷85° C
Relative humidity	5÷95% not condensing
Elevation	Up to 2000 m a.s.l.
Protection degree	IP20
Measurements	75 x 23 x 11 mm
Weight	100 g
Terminal cable cross-section	0.05 ÷ 1.5 mm ² (30 ÷ 14 AWG)
Approvals and certifications	EN 61000-6-4 / EN 64000-6-2 / EN 61010-1 / EN 60742
	C E CA

Order codes

Product	Q-USB485
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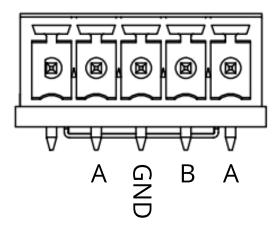


Figure 1: Connection pinout