

USB/RS-485 INTERFACE CONVERTER

S2000-USB

OPERATIONS MANUAL



ICO 9001

1 GENERAL

1.1 Intended Purpose

1.1.1 S2000-USB USB-to-RS485 Interface Converter (hereinafter referred to as the converter) is designed to convert USB interface signals to the relevant signals of two-wire trunk interface RS-485 with galvanic isolation.

1.1.2 The product can be used for converting interface signals while setting fire and intrusion alarm systems, access control systems, CCTV systems, fixed fire suppression systems and while arranging building automation systems.

1.1.3 The converter is to be powered from a USB port of a personal computer.

1.1.4 The S2000-USB USB-to-RS-485 interface converter can be operated under such operating systems as Windows 2000, XP, Server 2003, Vista, Server 2008, Server 2008 R2, Windows 7, Windows 8, Windows 10 as a virtual COM port.

1.1.5 The S2000-USB USB/RS-485 interface converter is intended for round-the-clock operation.

1.1.6 The S2000-USB interface converter is classed as a maintainable and restorable item.

1.1.7 The design of the S2000-USB interface converter doesn't imply operating it in aggressive and dusty environments or in ex-hazardous and flammable premises.

1.2 Specifications

No.	Parameter	Value
1.2.1	Power voltage, V	+5 (USB port of a PC)
1.2.2	Current consumed in the quiescent mode, mA	200 max
1.2.3	Operating temperature range, °C	Minus 30 to +50
1.2.4	Relative humidity, %	Up to 93 at +40°C
1.2.5	Enclosure protection degree	IP40
1.2.6	RFI caused by the S2000-USB as per GOST R 50009-2000	Not exceed
1.2.7	Weight, kg	0.040 max
1.2.8	Overall dimensions, mm	56 × 38 × 20 max
1.2.9	Baud Rates, bit/s	300, 1200, 2400, 4800, 9600, 19200, 38400, 57600, 115200
1.2.10	Non-stop operation	Round-the-clock
1.2.11	MTBF in the quiescent mode, hours	80,000
1.2.12	Survival probability	0.98758
1.2.13	Expected lifetime, years	10

1.2.14 The equipment passes the man-made radio disturbance standards prescribed for Class ‘B’ equipment as per GOST R 51318.22.

1.2.15 As to immunity to man-made radio disturbance, the equipment meets the requirements for Test Severity Level III as per GOST R 50009.

1.3 List of Parts

Item	Quantity, pcs.
S2000-USB USB/RS-485 Interface Converter	1
S2000-USB Operations Manual	1
Cable USB Type-A & Micro B	1
Woodscrew 1-3×25.016 GOST 1144-80	2
Wall Plug (for 6×30 screw)	2
Individual Package	1

2 INTENDED USE

2.1 The design of the equipment meets the requirements of fire and electrical safety including operation in emergency in accordance with GOST 12.2.007.0-75 and GOST 12.1.004-91.

2.2 Do not shut off power from the equipment before mounting, installing, and maintaining this one.

2.3 Operating restrictions, design, mounting, connecting, settings, testing and operation procedures for the converter are defined in details in its User’s Manual (the full version), which is available online at bolid.ru in the section Products on the page of S2000-USB and in the mobile app ‘Mobile Product Catalogue’ <https://bolid.ru/support/mobile-catalogue/>.



2.4 If a technical failure of the product has been found, the equipment shall be taken out of operation and sent for repair in accordance with Section 4.

3 MAINTENANCE

3.1 The S2000-USB interface converter shall be maintained by persons qualified for Accident Prevention of Level II or higher.

3.2 The equipment is to be maintained according to a planned preventive strategy which provides annual scheduled maintenance.

3.3 Maintenance works for the S2000-USB interface converter are described in its User’s Manual (the full version, see Section 2.3 of this manual).

4 REPAIR

4.1 Repair of faulty equipment is to be performed by the manufacturer or in authorized repair centers. The equipment shall be sent for repair in compliance with Company Standard QMS 8.5.3-2015, which can be found online at our website <https://bolid.ru/support/remont/>.



Attention!

The equipment shall be submitted for repair being assembled and clean and along with all the parts listed in the documentation.

Claims are accepted only if a reclamation report describing the failure is applied to the submitted equipment.

4.2 An equipment failure resulted from consumer's not observing rules of mounting and operation is not a reason for claims and warranty repair.

4.3 Claims shall be submitted to the following address:

NVP BOLID, #4 Pionerskaya Str., Korolyov, Moscow Region, 141070, Russia

Phone/fax: +7 (495) 775-71-55 (PBX). E-mail: info@bolid.ru.

4.4 In case of any issue related to use of the product, please contact the technical support: +7 (495) 775-71-55 or e-mail: support@bolid.ru.

5 STORAGE

5.1 In a transport container the equipment can be stored at ambient temperatures ranged from minus 50°C to +50°C and relative humidity of up to 95% at +35°C.

5.2 In the consumer package the equipment shall be stored only in heated premises at temperatures +5°C through +40°C and relative humidity up to 80% at +20°C.

6 TRANSPORTING

6.1 The equipment can be transported in a transport container at ambient temperatures ranged from minus 50°C to +50°C and relative humidity of up to 95% at +35°C.

7 DISPOSAL

7.1 The equipment is to be disposed of considering that there are no toxic components in it.

7.2 The content of precious materials: does not require accountability for storage, retirement and disposal (Clause 1.2 of GOST 2.608-78).

7.3 The content of non-ferrous metals: does not require accountability for retirement and further disposal.

8 MANUFACTURER WARRANTY

8.1 The manufacturer guaranties the equipment meets with technical requirements stated in the manuals if the user follows the instructions for transportation, storage, installation, and usage.

8.2 The warranty period is 18 months since putting the product into operation but no more than 24 months from the manufacturer's date of production.

9 CERTIFICATION INFORMATION

For certification information, please refer to S2000-USB User's Manual (the full version), see para 2.3.

10 ACCEPTANCE AND PACKING CERTIFICATE

This S2000-USB USB-to-RS485 Interface Converter, Factory No. _____ is manufactured, accepted in line with mandatory requirements of national standards and applicable technical documentation, approved as ready for use, and packed by the Bolid Company.

Responsible for acceptance and packing

QCD _____
Full Name

Date, Month, Year

