2018

SATION RS232 Gateway User Manual

The user manual refer to the following devices：

SATION- GW2301.0201 / GW2301.0202

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1 Technical Data....1
2 Application Description....1
2.1 Overview....1
2.2 Function Description....2
2.3 Sample Application Projector Control Sanyo:....2
2.4 Sample Application Projector Control NEC:....3
2.5 Liability....3
2.6 Safety Guidelines....3
3 Dimension Figure (mm)....4
4 Circuit Diagram....4
5 Contact....5

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Version

Version No.	Release Date	Description
V1.0	May 18th, 2018	1st Release

Notice

1. Please read this user manual carefully before using the product.
2. This product is used in indoor environment and installed in electrical control box.
3. Please install this product in a dry and ventilated place.
4. Before power on, please confirm the input voltage according to the manual; after power on, please confirm the normal output voltage before connecting to the control bus.
5. Please make sure the secure shell is in good condition, if the shell is damaged, please stop using to avoid accident.
6. This product is NOT a toy, please make sure it is out of children touch.
7. Only be suitable for EIB/KNX system bus.
8. Others:
   The below sign indicates this product can't be dealt as ordinary family rubbish, in order to avoid the possible environment and human health harm caused by the electrical waste, this product must follow recovery processing. Please contact the local recycling department after this product is scrapped, to make sure it can go as the right waste processing procedure.

1 Technical Data

External Power supply	10~30 VDC
Installation	Install on 35 mm DIN rail (according to EN 60529)
Shell Material	Plastic case
Safety class	II
Weight	80 g
Modular device	2UM (1UM = 18 mm)
Dimension	36 x 90 x 63 mm (WxHxD)
Operating temperature	-40 ... + 85°C
Stock temperature	-25 ... + 55°C
Relative humidity	93% non-condensing

2 Application Description

2.1 Overview

The KNX-GW-RS232-RS485 is a gateway between the KNX-Bus and the serial lines RS232.It can be used to easily connect devices with serial data of both directions like multimedia equipment or alarm systems to the KNX-Bus. Parametrization is done by the dedicated Program RS232-Configurator.

2.2 Function Description

The KNX Serial Gateway is bidirectional. It receives data telegrams on the KNX Bus and generates serial telegrams using the internal interface program. A new KNX telegram can also be created when a serial telegram is received.
The KNX Serial Gateway contains 8KByte of memory (additional memory available upon request). The group addresses for the internal objects are defined in a project-file together with the serial strings to use. They are then transferred over USB.A physical address can be established using a dummy application in ETS.
The KNX Serial Gateway comes ready for operation and does not need to be configured with ETS. Depending on which applications are programmed, the whole address spaces can be administered and data from the rotary switch and push-button can be analyzed.
The KNX Serial Gateway is delivered in a 6-units REG casing with IP20.

2.3 Sample Application Projector Control Sanyo:

#define baud rate baud_19200
#define serial mode mode_8N1
#define addrablelen 16
#include __init serial gate way III.code
No Input from RS232
Standard-strings to RS232
ON
1/1/0 "C00" crlf+ std_string s1
OFF
1/1/1 "C02" crlf+ std_string s2
INPUT1
1/1/2 "C05" crlf+ std_string s3
INPUT2
1/1/3 "C06" crlf+ std_string s4
VOL+
1/1/4 "C09" crlf+ std_string s5
VOL-
1/1/5 "C0A" crlf+ std_string s6
No Hex strings to RS232
Fsave

2.4 Sample Application Projector Control NEC:

```
#define baud rate baud_38400
#define serial mode mode_8N1
#define addrtablelen 16
#include __init serial gate way III. code
## No Input from RS232
## No Standard-strings to RS232
## Hex strings to RS232
## ON
1/2/0 2 0 0 0 0 2 6 hex string h1
## OFF
1/2/1 2 1 0 0 0 3 6 hex string h2
## Input1
1/2/2 2 3 0 0 2 1 0x01 0x09 8 hex string h3
## Input2
1/2/3 2 3 0 0 2 1 0x02 0x0A 8 hex string h4
fsave
```

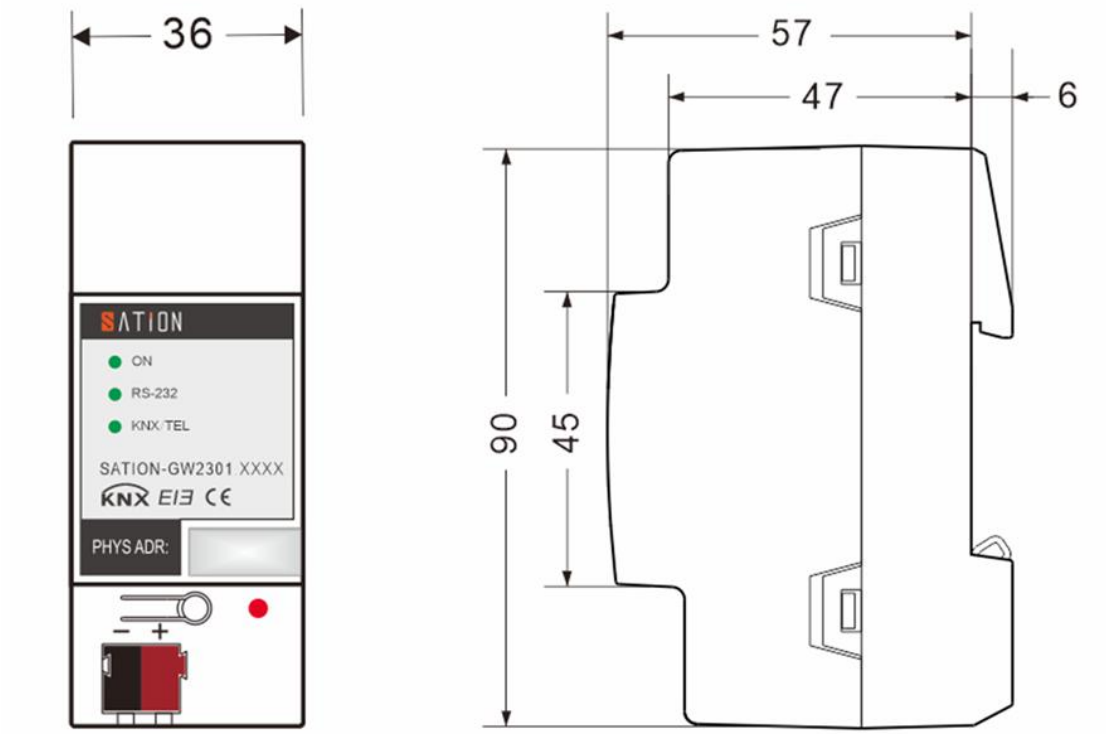
2.5 Liability

Selection and determining the appropriateness of the devices for a designated purpose is the customer's full responsibility. We offer no liability or guarantee for this. The data in the catalogue and data sheets is a result of experienced measurements and does not embody a guarantee of particular features. Arcus excludes responsibility for damage done on the part of the customer due to improper operation/projecting or malfunctions. On the contrary, the operator/projector must ensure that improper operation, and projection and malfunctions do not lead to any further damage.

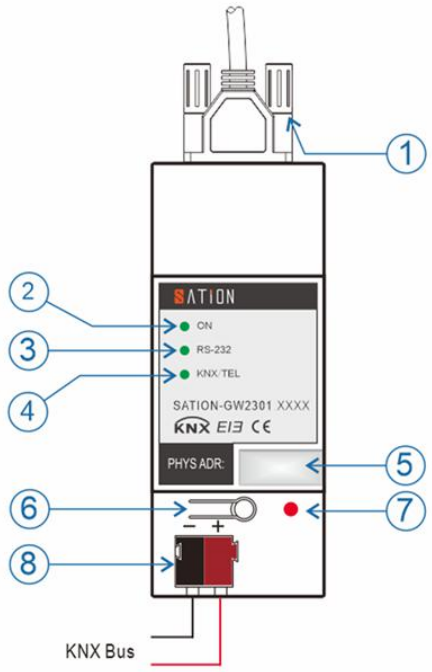
2.6 Safety Guidelines

Attention! Installing and assembling electrical devices must only be done by an electronics specialist. The customer should be aware of and adhere to the safety guidelines of VDE, TÜV and the appropriate energy provider. Our guarantee does not include defects and damage caused by improper use or non-compliance of operating instructions.

3 Dimension Figure (mm)



4 Circuit Diagram



1:RS232 D-SUB connector (female, 9 pole)
2:Power on LED
3:RS232 communication LED
4:KNX communication LED
5:Nameplate support
6:KNX programming push button
7:KNX programming LED
8:KNX bus line terminal blocks

5 Contact

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