Datasheet RS232 Controller
INT-203-D-01

Grenton RS232 Controller enables integration with devices via the RS232 protocol.

1. Parameters - RS232 Controller

Features:	
RepresentationType	Data representation type
BaudRate	Transmission Speed
WordLenght	Length of word
StopBits	Stop bits: 0 - 1 stop bit; 1 - 1.5 stop bits; 2 - 2 stop bits
Parity	Parity bit: 0 - None; 1 - Odd; 2 - Even
TxBuffer	Transceiver buffer. Cleared automatically after calling SendTxBuffer
RxBuffer	Receiver buffer. Incoming data is added to the buffer. After analyzing the data, clear the buffer using ClearRxBuffer
ResponseSize	The size of the expected response determined by the minimum number of bytes in the receive buffer for which an OnReceive event will occur. Setting it to 0 causes the event to not occur
ResponseTimeout	Time of response
Methods:	
SetRepresentationType	Sets data representation type
SetBaudRate	Sets transmission speed
SetWordLenght	Sets length of word
SetStopBits	Sets stop bits number
SetParity	Sets parity control type
AddToTxBuffer	Add data to transceiver buffer
SetResponseSize	Sets size of response
SetResponseTimeout	Sets time of response
ClearRxBuffer	Clears receiver buffer
ClearTxBuffer	Clears transceiver buffer
SendTxBuffer	Sends transceiver buffer
Events:	
OnReceive	Occurs when controller receives data. If the size of the received data is smaller than ResponseSize, the event will be generated after the data is collected in the receive buffer. The event will not occur for ResponseSize=0
OnTransmit	Occurs when controller is sending data
OnResponseTimeout	Occurs when the response time has been exceeded
OnOverflow	Occurs when the receiver buffer is overflown
OnTransmitError	Occurs during transmission error

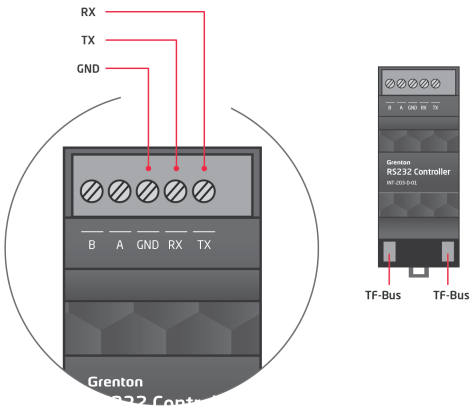
2. Parameters - PowerSupplyVoltage

Features:	
Value	Current power supply voltage value
Value%	Current percentage input value of the maximum value (MaxValue characteristic)
Sensitivity	Minimum change of input state when the OnValueChange, OnValueLower or OnValueRise event is generated
MinValue	Minimum value of the Value characteristic after exceeding which the OnOutOfRange event is generated
MaxValue	Maximum value of the Value characteristic after exceeding which the OnOutOfRange event is generated
Methods:	
SetSensitivity	Sets input sensitivity value
SetMinValue	Sets MinValue
SetMaxValue	Sets MaxValue
Events:	
OnValueChange	Event resulting from changing input state
OnValueLower	Event occurs when a value lower than the value from the last reading appears at input
OnValueRise	Event occurs when a value higher than the value from the last reading appears at input
OnOutOfRange	Event resulting from exceeding the permissible range (MinValue - MaxValue)
OnInRange	Event occurs when value returns to MinValue - MaxValue range

3. Technical Data

Device power supply	$24V_{dc}$
Maximal power consumption	0,24W
Maximal device current	10mA (for $24V_{dc}$)
Max. wire cross section	$2,5mm^2$
Weight	60g
Size [DIN]	2
Fixing	electrical box, rail DIN-3 / TH 35 / TS 35
Dimensions (H/W/D)	58/36/90mm
Operating temperature range	0 to +45°C

4. Wiring Diagram



TX	RX RS232
RX	TX RS232
GND	Ground

5. Warnings and Cautionary Statements

ATTENTION!

● Before proceeding with the assembly, read the installation schematics and full instructions available at www.grenton.com. Failure to follow the guidelines contained in the instructions and other requirements of due care valid as a result of the nature of the equipment (device) may be dangerous to life / health, damage the device or installation to which it is connected, damage other property or violate other applicable regulations. The manufacturer of the device, Grenton Sp. z o. o. does not bear any responsibility for the damage (property and non-property related) resulting from the assembly and / or use of the equipment not in accordance with the instructions and / or due diligence in handling the equipment (device).
● Device power supply, permissible load or other characteristic parameters have to be in accordance with the device specification, described in particular in the "Technical data" section.
● The product is not intended for children and animals.
● If you have technical questions or comments about the device operation, contact Grenton Technical Support.
● Answers to frequently asked questions can be found at: www.support.grenton.pl

DANGER!

● Danger to life caused by electric current!
● The components of the installation (individual devices) are designed to work in a home electrical installation or directly in its vicinity. Incorrect connection or use may cause a fire or electric shock.
● All work related to the installation of the device, in particular works involving interference in the electrical installation, may be performed only by a person with appropriate qualifications or licences.
● When installing the device, make sure that the power supply voltage is disconnected from the circuit in which the device is connected or near which the assembly takes place.

6. CE marking

The manufacturer declares that the device is in full compliance with the requirements of EU legislation that includes the directives of a new approach appropriate for this equipment. In particular, Grenton Sp. z o. o. declares that the device fulfills the requirements on safety, specified by law, and that it conforms to the national regulations that implement the appropriate directives: The Directive on the electromagnetic compatibility (EMC - 2014/30/UE) and the Directive on the limitation of the use of specific substances in electrical and electronic equipment (RoHS II - 2011/65/UE).

7. Warranty

Warranty available at: www.grenton.com/warranty

8. Manufacturer Contact Details

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