



## Remote Module with Two Serial Interfaces RSIO2

### ■ Short Description

The remote module with two serial interfaces is a high performance component for decentralized automation solutions with distributed intelligence.

The unit comprises 2 serial interfaces controlled via the CAN bus. This is particularly well suited to easily expanding CANtrol cell controllers by two additional serial interfaces.

- 2 serial interfaces controlled via CAN bus;
- Freely configurable;
- RS232, RS485, RS422;
- CANopen slave.

Employment of the remote module with two serial interfaces in conjunction with other controllers creates the standardized CANopen interface.

A single unit for all essential interfaces. Using software, the two serial interfaces can be selectively programmed as:

- RS 232;
- RS 422;
- RS 485 (X5 only).

Intelligent connecting logic ensures the modular structure of the machinery and equipment controller.

The unit can be directly connected at the CANtrol cell controller. CAN cables are used for connections where employment is decentralized.

The remote module with two serial interfaces is particularly useful for retrofitting or expanding existing machinery and equipment.

### ■ Configuration and Diagnostics

The node number and CAN baud rate can be adjusted either by means of rotary switches or by using programming software.

Internally, each serial interface represents a CANopen module.

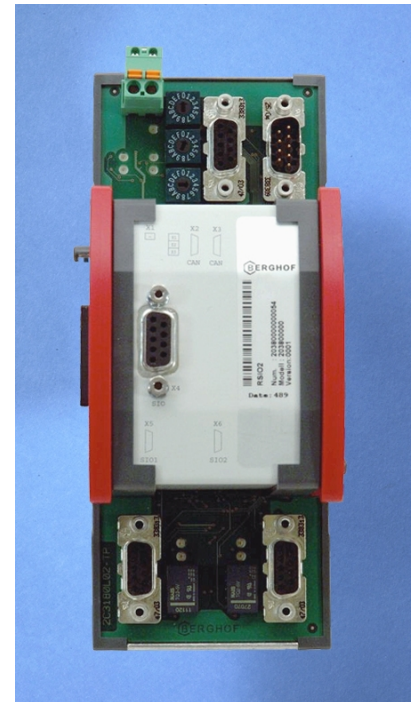
The serial interfaces are set exclusively by a CANopen command. The serial interface LEDs indicate received and transmitted data.

A green and a red LED are used to indicate the serial and CAN interface status and for diagnostics.

### ■ System Integration

The remote module with two serial interfaces is directly integrated into the cell/dialog controller application via a library.

This offers the user several advantages with regard to the implementation and maintenance of the overall application. Control and serial communications are both unified on a single controller.



## At a glance – a brief overview

<b>Module specifications</b>	
Type	RSIO2
Part no.	203800000
Dimensions, W x H x D [mm]	80 x 170 x 85.5 (modular dimension B = 69 / 74.5)
Weight	approx. 500 g
Installation	Mounting rail, NS 35/7.5 EN 50022
Operating temperature range	5° C to 50° C (condensation free)
<b>EMC, protection class, insulation test, protection method</b>	
Interference emission	EN 50081-2, Industrial applications
Interference sensitivity	EN 50082-2, Industrial applications
Protection class	III
Insulation resistance	EN 61131-2; DC 500 V test voltage
Protection method	IP20
<b>Supply voltage, power consumption</b>	
Supply voltage	SELV DC +24 V
Current consumption	Max. 120 mA at Ue=DC +24 V
Supply voltage polarity reversal protection	Yes
Voltage separation	Yes, between the 24V supply and CAN/SIO
<b>Serial interfaces</b>	
Number and type of interfaces	3 1 RS232 (X4) for configuration 2 serial interfaces: X5 and X6 RS232, RS485, RS422, depending on the software setting
Baud rates	2 interfaces, up to 38,400
Terminating resistor	Included for RS485 and RS 422
Constraint	RS485 only at the SIO1 interface (X5)
Connection technique	9-pin, Sub D socket
<b>CAN interface</b>	
CAN bus	ISO/DIS 11898
CAN bus protocol	CANopen slave
Baud rates	Up to 1,000,000 baud
Connection technique	9-pin Sub D socket (X2) and pins (X3); E-bus plug
<b>Display elements</b>	
Status LEDs	1 Supply voltage 2 CANopen status (SIO1 / SIO2) 2 Serial interface error (Error SIO1 / SIO2)
SIO LEDs	2 for received data (SIO1 / SIO2) 2 for transmitted data (SIO1 / SIO2)