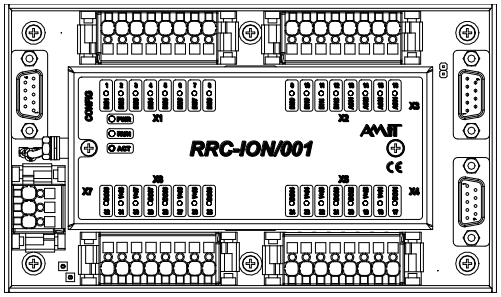
RRC-ION/001

Remote I/O unit with CANopen DS 401 protocol



- **12 × digital input 24 V DC without GS, 24 V DC**
- **8 × digital output 24 V DC without GS, 24 V DC**
- **4 × analogue output, 0 mA to 20 mA without GS**
- **Supplying voltage measurement**
- **1 × CAN with GS *), concatenated connectors**
- **Power supply 24 V DC**
- **Design meets the EN 50155:2008 standard**

TECHNICAL DATA

Digital inputs	12 × 24 V DC
Input voltage maximum range	±40 V DC
Digital outputs (MOS)	8 × 24 V DC
Switched current	Max. 4 A / output
Shortcut protection	Yes
Polarity reversal protection	Yes
Analogue outputs	4 ×
Output currents maximum range	0 mA to 20 mA
CAN interface	1 ×
Communication protocol	CANopen DS 401
Terminating resistor	External
Galvanic separation	Yes **)
CAN interface connection	2 × D-sub DE-9 (concatenation)
Configuration	By **RRC-KM** module
Supplying voltage	16.8 V DC to 30 V DC
Maximum power consumption ***)	100 mA at 24 V DC
Other	
Cover protection rate	IP30
Operating temperature	-40 °C to 70 °C
Storage temperature	-40 °C to 70 °C
Maximum ambient humidity	< 95 % non-condensing
Mounting form	DIN 35 mm rail mounting
I/O signal connection	WAGO X-COM 769 (5,08 mm) connectors
Weight	1.25 kg
Dimensions (w × h × d)	(170 × 100 × 111) mm

*) Galvanic separation.

**) Isolation strength of galvanic separation 600 V AC/1 min. Isolation may not be used for dangerous voltage separation

***) Without inputs / outputs.

ORDERING INFORMATIONS

RRC-ION/001	Remote I/O unit with CANopen DS 401 protocol, WAGO connectors counterparts, certificate of product quality and completeness, routine testing protocol, Insulation testing protocol
RRC-KM	Configuration module, certificate of product quality and completeness

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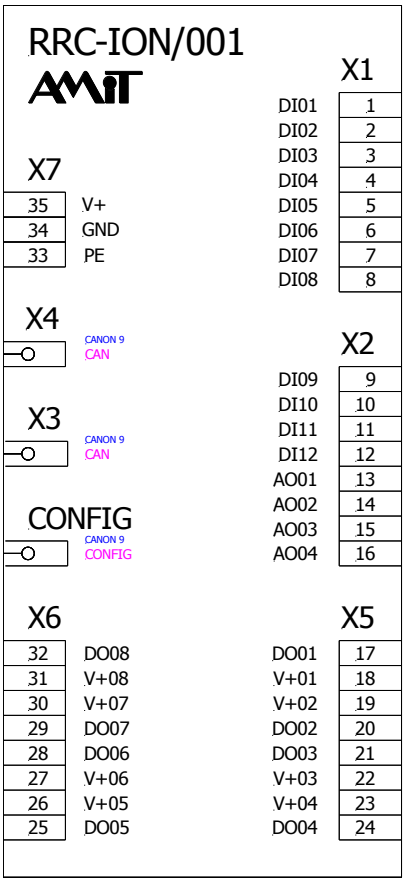
RECOMMENDED DRAWING SYMBOL



TERMINALS IDENTIFICATION

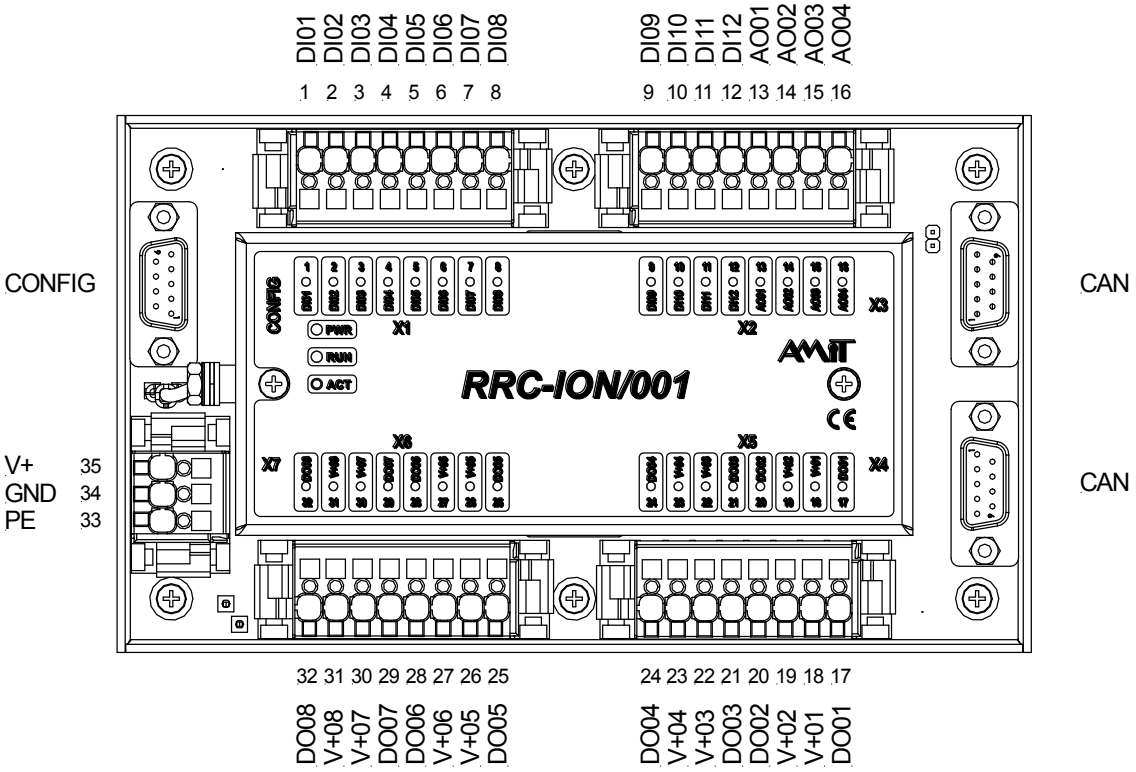
Terminal	Connector	Label	Meaning
1 to 8	X1	DI01 to DI08	Digital input without galvanic separation
9 to 12	X2	DI09 to DI12	Digital input without galvanic separation
13		AO01	Analogue output without galvanic separation
14		AO02	Analogue output without galvanic separation
15		AO03	Analogue output without galvanic separation
16		AO04	Analogue output without galvanic separation
17	X5	DO01	Digital output without galvanic separation
18		V+01	Supplying of DO09 output
19		V+02	Supplying of DO10 output
20		DO02	Digital output without galvanic separation
21		DO03	Digital output without galvanic separation
22		V+03	Supplying of DO11 output
23		V+04	Supplying of DO12 output
24		DO04	Digital output without galvanic separation
25	X6	DO05	Digital output without galvanic separation
26		V+05	Supplying of DO13 output
27		V+06	Supplying of DO14 output
28		DO06	Digital output without galvanic separation
29		DO07	Digital output without galvanic separation
30		V+07	Supplying of DO15 output
31		V+08	Supplying of DO16 output
32		DO08	Digital output without galvanic separation
33	X7	PE	Module chassis
34		GND	Power supply GND
35		V+	Power supply 24 V DC

Industrial
Control Systems

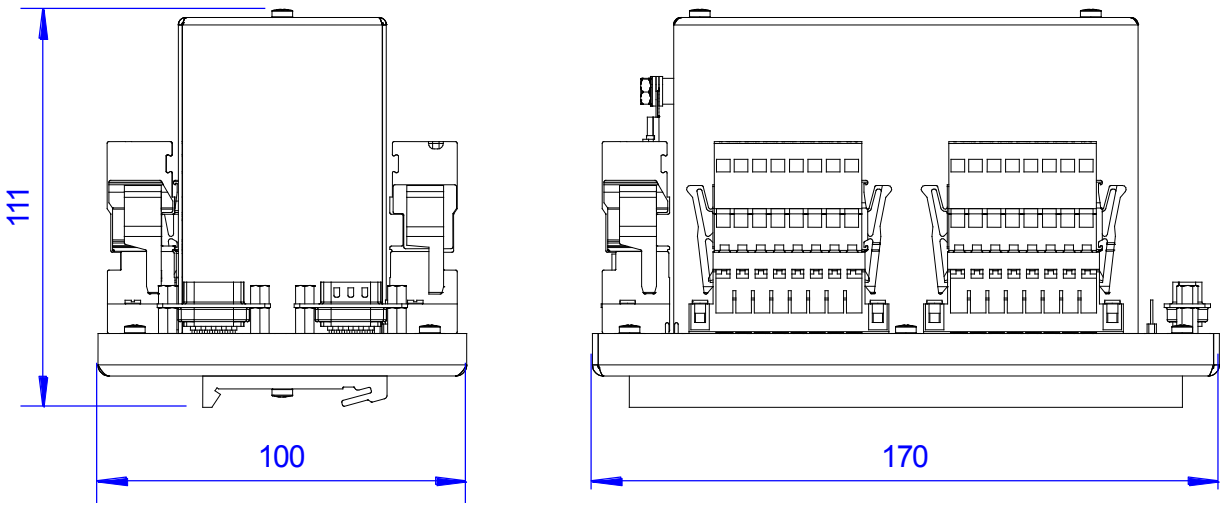
RRC-ION/001

Remote I/O unit with CANopen DS 401 protocol

TERMINAL LOCATION



PHYSICAL DIMENSIONS



Data provided in this datasheet are only informative. Detailed information can be found in operation manual (**rrc-ion001_g_en_xxx.pdf**). Documentation and examples can be downloaded from www.amit-transportation.com.

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