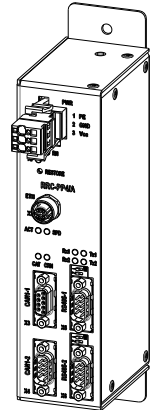


RRC-PP4/A

Communication converter

- 2 × RS485 interface with GI
- 1 × CAN interface with GI
- 1 × Ethernet 10/100 Mbps communication rate
- Power supply 24 / 36 V DC
- Mounting on base plate
- Design according to EN 50155:2007



TECHNICAL DATA

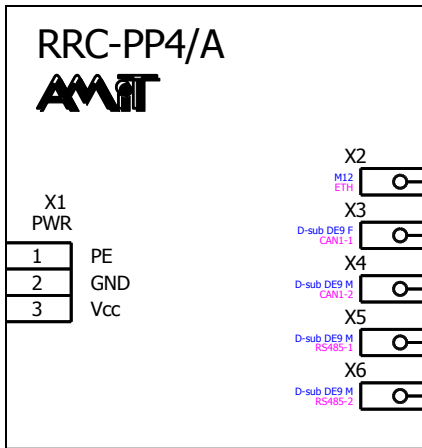
RS485 interface	2 ×
Galvanic isolation	Yes *)
Oversvoltage protection	600 W
Line termination	Internal DIP switch
Connection point	D-sub DE-9 plug connector fixing by UNC4-40 bolt
Max. number of stations on segment	32
CAN	1 ×
Communication rate	Max. 1 Mbps
Galvanic isolation	Yes *)
Connection point	2 × D-sub DE-9 (concatenation), connector fixing by UNC4-40 bolt
Ethernet interface	1 ×
Communication rate	10 / 100 Mbps
Galvanic isolation	Yes *)
Connection point	M12 connector according to IEC 61375-3-4 ed.1
Power supply	16.8 V to 50.4 V DC
Maximum power consumption	150 mA at 24 V DC
Others	
Ingress protection rate	IP20
Operating temperature range	-40 °C to 70 °C
Maximum ambient humidity	< 95 % non-condensing
Mounting	2 × hole ø 6 mm
Weight	0.84 kg ±5 %
Dimensions (w × h × d)	(50 × 228 × 113) mm

*) 500 V AC / 1 minute. Isolation may not be used for dangerous voltage separation.

ORDERING INFORMATION

RRC-PP4/A	Communication converter, WAGO connector counterpart, Certificate of product quality and completeness, routine test protocol, insulation test protocol.
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RECOMMENDED DRAWING SYMBOL



CONNECTOR X1 (POWER SUPPLY)

Pin	Signal	Description
1	PE	Unit chassis
2	GND	Power supply, ground
3	Vcc	Power supply + 24 / + 36 V DC

CONNECTOR X2 (ETHERNET)

Pin	Description
1	Tx+
2	Rx+
3	Tx-
4	Rx-

CONNECTORS X5 AND X6 (RS485)

Pin	Signal	Description
1	–	Not used
2	–	Not used
3	–	Not used
4	A	Positive contact RS485
5	–	Not used
6	–	Not used
7	G485	RS485 line ground
8	Shield	RS485 line, shield
9	B	Negative contact RS485

DESCRIPTION OF LEDS

LED	Status	Description
PWR	ON	Power supply OK
RN	–	Depends on used software
AT	–	Depends on used software
SPD	OFF	Ethernet communication speed 10 Mbps
	ON	Ethernet communication speed 100 Mbps
ACT	Blinks	Communication takes place via Ethernet
	ON	Ethernet cable connection detection
Tx1	Blinks	Unit is sending data on RS485-1 interface
Rx1	Blinks	Unit is receiving data from RS485-1 interface
Tx2	Blinks	Unit is sending data on RS485-2 interface
	Blinks	Unit is receiving data from RS485-2 interface
CAT	Blinks	Unit is receiving data from CAN1 interface
CRN	–	Depends on used software

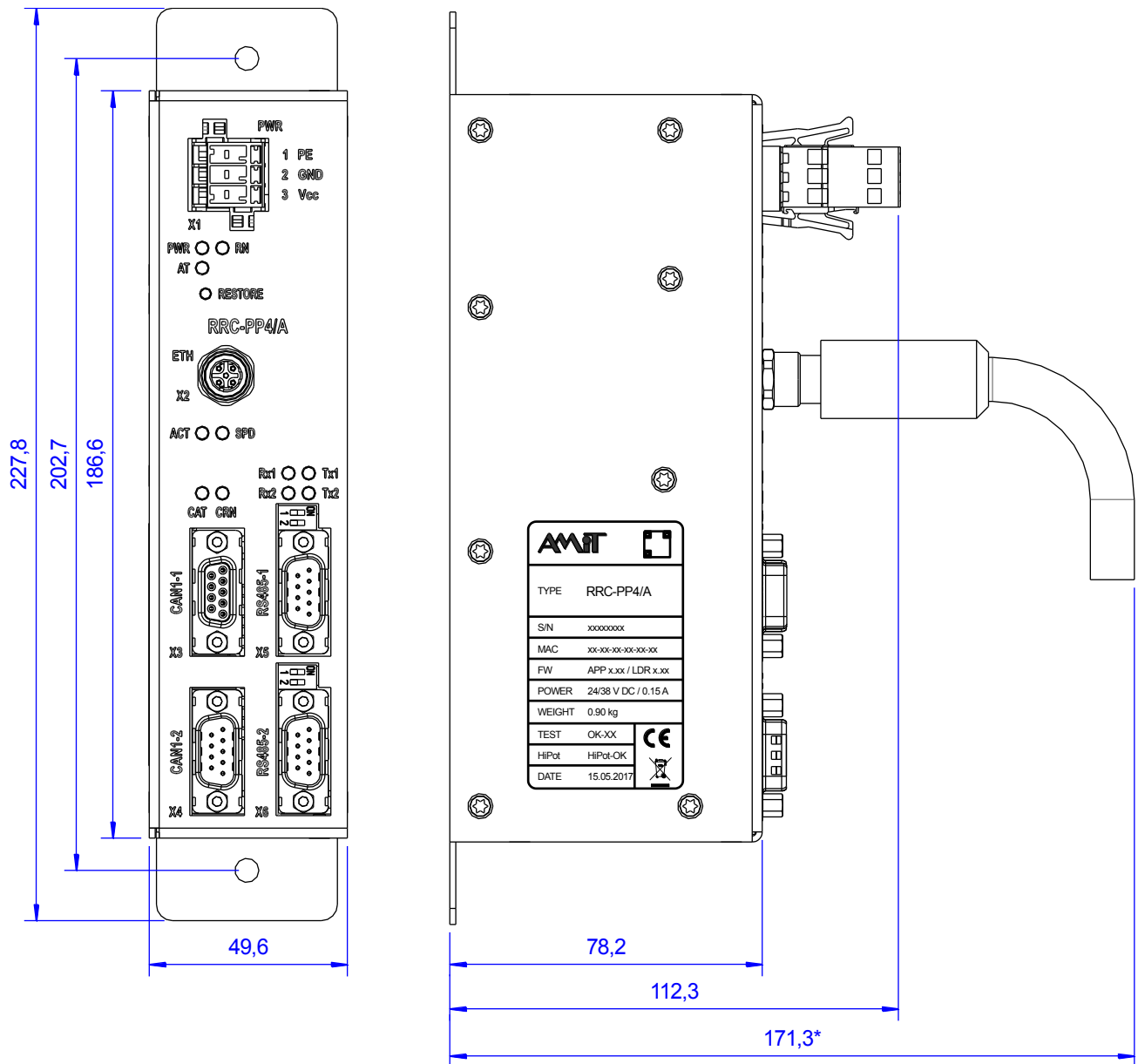
X3 AND X4 (CAN) CONNECTORS

Pin	Signal	Description
1	–	Not used
2	CAN_L	CAN-L
3	CAN_GND	CAN-GND
4	–	Not used
5	–	Not used
6	GND	CAN-GND
7	CAN_H	CAN-H
8	–	Not used
9	–	Not used
Shielding	SH_CAN	Connected to PE

RRC-PP4/A

Communication converter

MECHANICAL DIMENSIONS



Note:

*) This is only approximate dimension – it depends on the type of connector and cable bend radius.

Data in this datasheet are tentative. Thorough information can be found in Operation Guide ([rrc-pp4a_g_en_xxx.pdf](#)). Documentation and examples can be downloaded from www.amit-transportation.cz.