

Protocol converter KC-AB-PN



Operating instruction

RS485-PROFINET IO protocol converter (Anybus AB7013) **KC-AB-RS485-PN**

Accessories Checklist

The following items are attached to the shipment:

- · Network connector for power supply
- RS485 connection plug D-Sub, 9-pin with 120 Ω resistance
- · USB-stick with GSD file and a RFID-S7 project as example

The following items are to be provided by the customer for installation:

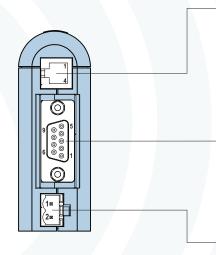
- · PROFINET network cable and connector
- · 24 V DC power supply

Installation and startup

Α.

- · Mount the protocol converter on the DIN-rail
- · Connect the protocol converter to the PROFINET IO network
- · Connect the protocol converter to the RS485 bus
- Switch on the protocol converter (+24 V DC)
- · Configure and start the PROFINET IO network
- · The protocol converter is supplied preset by MOLLET.

Bottom view



PC connector

Pin no	Description	
1	GND	
2	GND	
3	RS232 Rx	
4	RS232 Tx	

RS485 bus connector

Power

Pin no

Pin no	Description	
8	RS485 +	120 Ω
9	RS485 -	120 12

Description +24 V DC

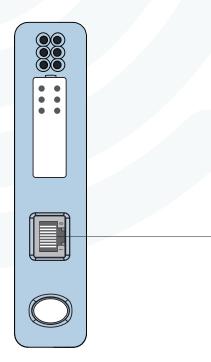
GND

At the beginning (in the connection plug D-Sub) and at the end of the RS485 bus line the attached resistor with 120 Ω as to be clamped.

	0010	tO: V	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	20 12 UO	to be damped.		
-	_	_	_		RS485-BUS		⊐ 120 Ω[

When the converter is disconnected from the power supply a resistance of approx. 60 Ω can be measured between **A** and **B** after successful installation.

Module front



PROFINET connector

I IVOI IIVE I OOIIIICOLOI	
Pin no	Description
1	TD+
2	TD-
3	RD+
6	RD-
4,5,7,8	Termination

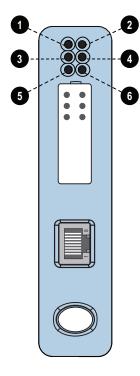




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LED indicators at module front



LED indicators

LED no	Indication	Description	
1 Communication status	off	not online	
	green	online, connection with IO established,	
		IO controller in run state	
	green, flashing	online, connection with IO established,	
		IO controller in stop state	
2 Module status	off	no power, not initialized	
	green	initialized, no errors	
	green, flashing 1Hz	diagnostic not available	
	green, flashing 2Hz	used by engineering tool to identify the module	
	red, flashing 1Hz	configuration error	
	red, flashing 3Hz	no station name or no IP address assigned	
	red, flashing 4Hz	internal error	
3 Link active	off	no link	
	green	connected to an Ethernet network	
	green, flashing	packets are received or transmitted	
4 not used			
5 Subnet status	green, flashing	running, but one or more transaction errors	
	green	running	
	red	transaction error/timeout or subnet stopped	
6 Device status	off	power off	
	red-green, alternating	invalid or missing configuration	
	green	initializing	
	green, flashing	running	
	red	bootloader mode	
	red, flashing	note the flash sequence pattern and contact MOLLET	