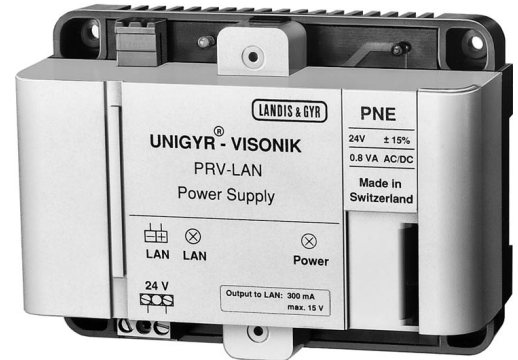


BATIGYR

Power Supply

FOR BATIBUS AND PRV-LAN

PNE



Scale 1 : 2

8943P015

Application

Power Supply for the BatiBUS or the PRV-LAN. For a system overview, please see PNB Data Sheet, CM2N8942E.

BatiBUS

BatiBUS is a fieldbus, especially designed for the communication between analogue and digital inputs and outputs of relatively simple devices. Applications are HVAC, lighting, blinds, intrusion detection, etc.

Bus voltage	15.5 V ± 10 %
Protocol	CSMA/CA multi master (collision detection)
Transport security	1 parity bit per character and 16 bit checksum per frame (⇒ frame security of 10 ⁻¹⁰ frames)
Baud rate	4,800 baud (approx. 10 frames per second)
Cable	Twisted pair, shielded if necessary
Resistance	12 Ω max. between the power supply and the farthest device
Capacitance	Maximum capacitance of 250 nF
Length	From power supply to farthest user with 0.6 mm ² cross-section: 200 m From power supply to farthest user with 1.5 mm ² cross-section: 500 m Maximum length of all lines with 0.6 mm ² cross-section: 1500 m
Connector	Phoenix MSTB 2 (Landis & Gyr BatiBUS devices are supplied with a female and a male connector)
Topology	Bus, star, ring and combinations of these (see example)
Polarity	Must be observed

Address range	240 addresses Note: The following coding is often used: 1/1 1/2...1/16 2/1 2/2...2/16 ...15/16
Device power supply	A device can be powered by an external power supply or by BatiBUS. If a device is powered through BatiBUS, the current consumed has to be less than to 2 mA.
Device capacity	The total capacitance of all devices should not exceed 150 nF. Often, "DS" is used to characterise the capacitance of a device, where 500 pF corresponds to DS=1. As an example, the RCE86 has DS=2.2, which means a capacitance of 1.1 nF.
Device current	The total current of all devices should not exceed 150 mA. Often, "C" is used to characterise the current of a device, where 500 uA corresponds to C=1. As an example, the RCE86 has C=0.06, which means a current of 30 uA.

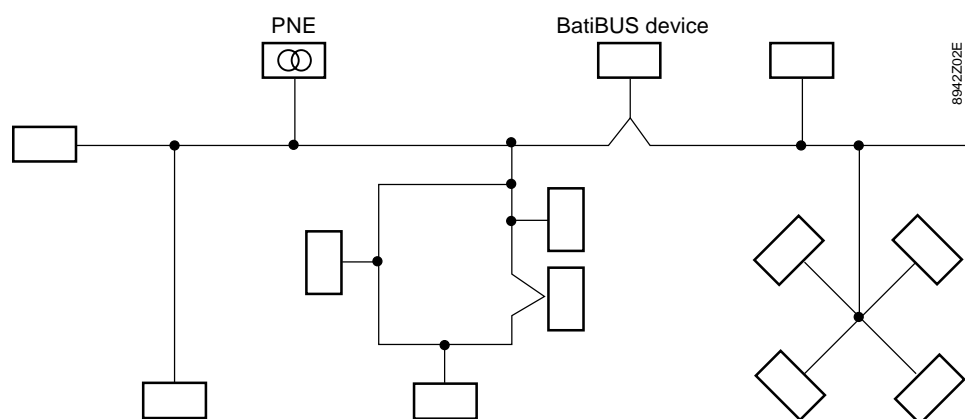
Technical data PNE

Operating voltage	24 V AC/DC $\pm 15\%$
Frequency	AC 50..60 Hz
Output to LAN	300 mA (max. 15 V)
Normal power consumption	0.8 VA
Maximum power consumption	5 VA
Ambient temperature	
Operation	0..40 deg. C
Storage and transport	-20..70 deg. C
Weight	180 g

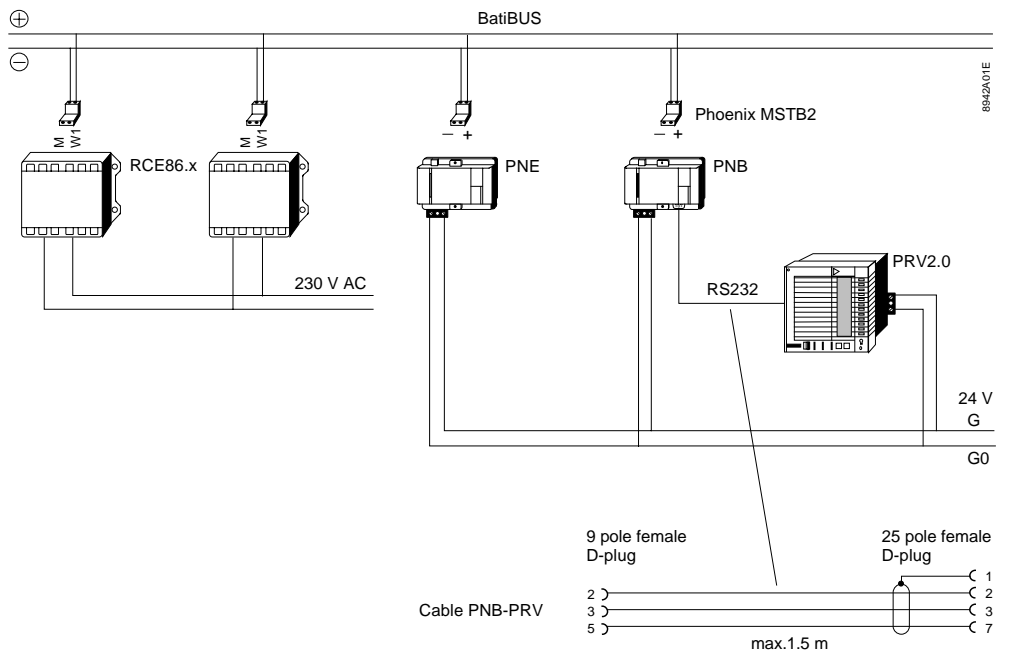
Accessories

Name	Type reference	Data Sheet
BatiBUS Node	PNB	8942
2-pipe fan coil controller	RCE86.2 , RCE86.21	3532
4-pipe fan coil controller	RCE86.4 , RCE86.41	3534

Topology example



Connection diagram



The connection to BatiBUS is done by a Phoenix MST B2, which is part of the delivery.

Dimensions

