

Berneer®



RS485 Server
BN-485Z

User Manual



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5.2 Specifications

Model	BN-485Z
Input Device Quantity	8 units
Input Port	8×RS485 (flat cable)
Output Port	4×RS485 (flat cable)
Communication Port	RS485 half-duplex
Communication Protocol	PELCO, PELCOP, SAMSUNG protocol
Baud Rate	2400bps/4800bps/9600bps/19200bps
Max. Length of Cable	1200 meters
Power Supply	DC12V±10% 50Hz
Power Consumption	2W
Port Protection	600W surge protection, 15KV static protection
Dimension	205×482×46mm(L x W x H)
Weight	2.3kg
Operating Temperature	-10°C ~+50°C

Chapter 4 Protocol & Baud rate Setting

Open body, see IN1, IN2, IN3, IN4, IN5, IN6, IN7 and IN8 dialup switchers of 4-digit, matching with 1-IN, 2-IN, 3-IN, 4-IN, 5-IN, 6-IN, 7-IN, and 8-IN input kits; change #1 or #2 button selecting different protocols; change #1 or #2 button selecting different baud rates. Setting details as below:

1	2	Protocol	3	4	Baud Rate
OFF	OFF	Pelcod	OFF	OFF	2400bps
ON	OFF	Pelcop	ON	OFF	4800bps
OFF	ON	SAMSUNG	OFF	ON	9600bps
			ON	ON	19200bps

Chapter 5 Appendix

5.1 Accessories List

Accessories List			
Name	Quantity	Unit	Notes
DC12V Power Supply	1	\	
3PIN Connector	12	\	
User Manual	1	\	
Certification	1	\	
Guarantee Card	1	\	

Chapter 1 Functions Introduction

Functions introduction

Ensure multiple RS485/422 controllers (i.e. DVR, matrix, keyboard controller, etc) manage multiple controlled objects binded in one bus-line, solving operation conflict & authority problem among controllers
BN-485Z server solves problem that in projecting process, multiple different control equipments (DVR, matrix, keyboard controller) RS485 output ports partly fail to control dome camera. As a result, BN-485Z ensures multiple DVRs, matrixes and keyboard controllers simultaneously control multi-dome.

Code convert function

Ensure directly connect with RS422 devices (i.e.matrix) in order to control front-end equipments

Control code distributor function

BN-485Z has 4 ports of RS485 output, thus it prevents control code error appearing

Set protocol&baud rate

BN-485Z can adopt Pelcod or Pelcop option; besides can set 4 types baud rates: 2400bps, 4800bps, 9600bps, 19200bps

Real-time output

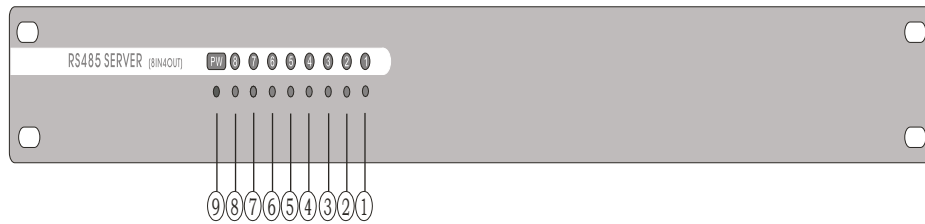
Real-time output, never adjust code. Not need change system settings, RS485 bus-mastering devices can set different protocols&baud rates

Free combine

According to system function requirement&capacity, BN-485M, BN-485H and RS-485Z can freely combine.

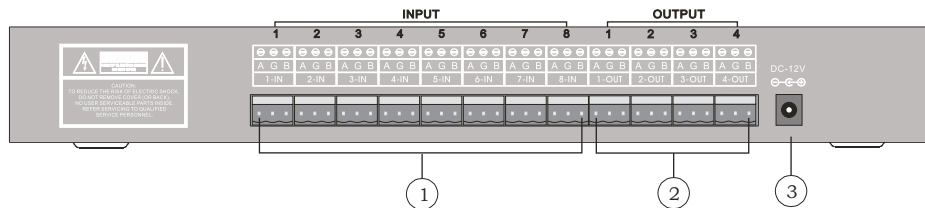
Chapter 2 Installation

2.1 BN-485Z Front Panel



Number	Indicator&Port	State&Connection
1	Input state 1 displays (1)	Displaying of #1 channel receiving: flicker, turn green
2	Input state 2 displays (2)	Displaying of #2 channel receiving: flicker, turn green
3	Input state 3 displays (3)	Displaying of #3 channel receiving: flicker, turn green
4	Input state 4 displays (4)	Displaying of #4 channel receiving: flicker, turn green
5	Input state 5 displays (5)	Displaying of #5 channel receiving: flicker, turn green
6	Input state 6 displays (6)	Displaying of #6 channel receiving: flicker, turn green
7	Input state 7 displays (7)	Displaying of #7 channel receiving: flicker, turn green
8	Input state 8 displays (8)	Displaying of #8 channel receiving: flicker, turn green
9	Input state 9 displays (9)	Displaying of #9 channel receiving: flicker, turn green

2.2 BN-485Z Back Panel



Number	Port	Connection Notes
1	RS485 input ports(1-8)	Connect to speed dome or decoder, A to RS485 bus+, B to RS485 bus-, G to grounding
2	Rs485 output port	Connect to control devices (DVR, matrix, keyboard controller), A to RS485+, B to RS485-, G to grounding
3	Power input (DC12V)	DC12V power input

Note 1: BN-485Z can set protocol & baud rate. Detail setting should accord with input device, setting over, restart for taking effect

Note 2: BN-485Z is standard 1U box, only needs place it at device cabinet

Note 3: BN-485Z to 422 device: A to 422+, B to 422-

Chapter 3 Typical Wiring Diagram

