

EX-485BD USER'S GUIDE

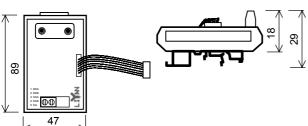
 This manual contains text, diagrams and explanations which will guide the reader in the correct installation and operation of the EX-485BD communication adapters.

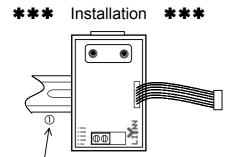
*** Introduction ***

<External dimensions>

EX-485BD

Dimensions unit: mm

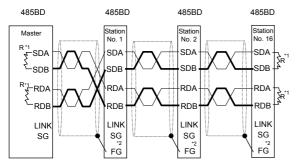




♦ it can assembly to ① (35mm).

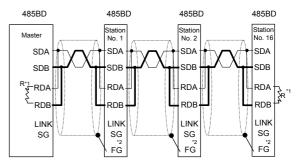
******* Wiring *******

Examples of two-pair wiring (for RS422 circuit)



- *1 R is the terminating resistance. Connect the terminating resistance (330Ω) between terminals SDA and SDB, and terminals RDA and RDB.
- *2 Connect terminal \boxed{FG} to earth terminal $\boxed{\pm}$ of the PC main body grounded with resistance of 100 Ω or less.
- *3 The 24V DC power requirement can be taker from the service power supply of the PLC main unit.

Examples of one-pair wiring (for RS485 circuit)



- *1 R is the terminating resistance. Connect the terminating resistance (110 Ω) between terminals RDA and RDB.
- *2 Connect terminal FG to earth terminal \pm of the PC main body grounded with resistance of 100 Ω or less.
- *3 The 24V DC power requirement can be taker from the service power supply of the PLC main unit.

*** Specifications ***

<Environmental specifications>

Operating ambient temperature	0 to 55°C, storage t	emperature –20 to 70°C
Humidity no condensation	35 to 85% RH (No condensation)	
Noise immunity	Noise voltage 1000V p-p, noise width 1 μ sec	
Dielectric withstand voltage	1500V AC, 1 min	Between all terminals in
Insulation resistance	500V DC / 5M Ω	batch and FG terminal
Ground	Grounding resistance of 100 Ω or less (class 3)	
Operating ambience	Free from corrosive gases, minimal dust.	

<Power source specification and type of isolation>

Current consumption	External power supply: 24V DC, max. 50 mA Internal power supply from PLC: 5V DC, max. 30mA
	Power source is isolated by transformer; PLC main unit and communication signal lines are isolated by photo coupler.

<Performance specification>

ltem	Specifications
Interface	Conforming to RS422/485
Circuit configuration	1:1 or 1:n (n=1 to 16, max. 16 stations)
Transfer distance	Total extension within 50m
Station numbers	1 to 16 (set by Special D8121)

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