



RS232-RS485/RS422 CONVERTER'S MANUAL

Model: LD15PN



INTRODUCTION

Milestone's model LD-15PN is a Din Rail Panel Mount RS232C-RS485 / 422 Converter Model 15PN is an industrial Grade unit Designed for high speed data transmission between computer system and or peripherals over long distance under high noise conditions. The converter has 2 / 4 wire mode.

APPLICATIONS

Application for these converters can be for factory automation, programmable logic controllers, attendance recording systems, Barcode Readers, remote data transmission, remote terminals, EPABX etc.

Technical Specifications	
Input RS232	TXD, RXD & Grd.
Output RS485	+Tx /+Rx, -Tx /-Rx Ground, (E=Earth)
Wire Selection	2/4 wire selection through front panel jumper setting.
Max. Distance	1.2 Km @ 19,200 bps
LED Indication	Power, TD, RD.
Front Panel indication	Tx, Rx, Power.
Power Supply	24 V-DC. (230 V Mains –Optional)
Power Supply Optional	230 V, 50 Hz
Power Consumption	20VA Max.
Size	70 (D) x 75 (W) x 112 (H) mm
Din Rail	EN-50022 35 x 7.5 mm



Operating Instruction:

Top Row (From left)

- 2 wire / 4 wire Mode selection

For 2 wire : connect / short on pin no 1 & 2

Details of pin : Term 1- for two wire
Term 2- is common

For 4 wire : connect / short on pin no 2 & 3

Details of pin : Term 3- for four wire
Term 2- is common

- RS485 / RS422 Term 4- +T/R (in /out)
5- - T/R (in /out)
6- + R (in)
7- - R (in)
8- - Grd 2

Bottom Row (From Left)

- RS232C Term 12- Grd 1
13- TX (out)
14- RX (in)
- DC Supply 24 Term 15- +24V DC
16- +24V DC Return



Long Distance Cable Laying:

Long distance cable between two RS422 / 485 interfaces must be a twisted pair shielded cable. The pair should be used for each signal type + & - signal. This gives high common mode noise rejection. While laying the cable care should be taken not to lay this cables parallel to power line cables. The cable resistance should not be more then 90 ohms / 1000 meters. The cable should be run through conduit pipe for physical protection.

TABLE i: OUTPUT CABLE – 4 Wire

SIGNAL	Pin No.	Instrument
+T/R	4	+RX
-T/R	5	-RX
+R	6	+TX
-R	7	-TX

TABLE ii: OUTPUT CABLE – 2 Wire

SIGNAL	Pin No	Instrument
+T / + R	4	+T / +R
-T / - R	5	-T / -R