

OPERATING MANUAL

FOR

RS485/RS422 TO RS485/RS232 SPLITTER

MODEL LDA-1044UD

INTRODUCTION

Milestone model LDA-1044UD is a RS485/RS422 to RS485/RS422/RS232 converter- splitter is designed for high-speed data transmission between computer system and or peripherals over long distance under high noise conditions. They provide dual line interface per signal.

APPLICATIONS

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

SPECIFICATIONS

| | |
|-------------------------|--|
| Input | RS485/RS422 Input - +Tx/Rx, -Tx/Rx (Male Connector) |
| Output | 4 RS485 Outputs – +Tx/Rx, -Tx/Rx (D9 Male Connectors). Each signal is protected by spike suppressor and has opto-isolation. 4 RS232 Outputs- Tx, Rx, GND (D9 Male Connector). |
| Max. Distance | 1.2Kms. @ 19,200 bps for RS485/RS422 |
| Output Cable | Twisted pair cable-90 ohms/km for RS485/RS422 |
| Transient Protection | 2500 V Peak |
| Front Panel Indications | Power, TD |
| Power Supply | Mains Input-230V, 50 Hz |
| Power | Max. 50 VA Built-In Power Supply |

INSTALLATION INSTRUCTIONS

**TABLE I: RS422/RS485 Input/Output port-D9
Male connector**

| PIN No. | Signal | In/Out |
|----------------|---------------|---------------|
| 5 | +Tx/Rx-B | IN/OUT |
| 6 | -Tx/Rx-A | IN/OUT |
| 7 | GND | --- |

**TABLE
232**

**II: RS
Output D9 Male Connector**

| PIN No. | Signal | In/Out |
|----------------|---------------|---------------|
| 2 | Rx | IN |
| 3 | Tx | OUT |
| 5 | GND. | --- |

LED Indication:

- A. Power - Power to the Unit
- B. TD - Tx Data on RS485 & RS232

LONG DISTANCE CABLE LAYING

Long distance cable between two RS422/RS485 interfaces must be a twisted pair shielded cable. The pair should be used for each signal type + and – signal. This gives high common mode noise rejection. While laying the cable, care should be taken not to lay this cable parallel to power line cables. The cable resistance should not be more than 90 ohms/1000 meters. The cable should be run through conduit pipe for physical protection.

TABLE V: OUTPUT CABLE

| D9 Male | Pin No. | Instrument |
|----------------|----------------|-------------------|
| +Tx | 5 | +Rx |
| -Tx | 6 | -Rx |

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