

OPERATING MANUAL
RS485 CONVERTOR REPEATER
MODEL LD-15UCR

INTRODUCTION

Milestone Model LD15UCR is RS422/RS 485 CONVERTOR REPEATER which is designed for Converting RS422/RS485 from 2-wire to 4-wire and Vice Versa & driving signals to a longer distance. Additionally, input and output signals are isolated.

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.

SPECIFICATIONS

Input/Output

Input - D9 Female Connector

Output - D9 Male Connector

(i) RS422 2-wire differential mode

Pin No.	Signal
5	+Tx/+Rx
6	-Tx/-Rx

(ii) RS422 4-wire differential mode

Pin No.	Signal
3	-Rx
4	+Rx
5	+Tx
6	-Tx

Selection Switch	2-Wire or 4-Wire mode select switch on rear panel for both the input and output port.
Max. Distance	1.2Kms. @ 19,200 bps
Input/Output Cable	Shielded twisted pair cable-90 ohms/km
Transient Protection	2500 V Peak
Front Panel Indications	Tx, Rx, Power,
Power Supply	Mains Input-230V, 50 Hz
Power	Max. 20 VA Built-In Power Supply.
Size	135mm x 145mm x 57mm

LONG DISTANCE CABLE

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 run through conduit pipe for physical protection.

Working:-

Unit can be used in 2 ways

- 1) As a repeater for 2 wire or 4 wire or in any combination.
- 2) As a Converter – repeater for converting 2 wire Rs485 to RS422 or Vice Versa.

