



RS485 REPETER'S MANUAL

Model: LD15RPN



Milestone's model LD-15RPN is a RS 485 REPEATER in DIN RAIL MOUNT box. It is designed for driving RS485 –2 –wire (or 4 wire optional) signals to a longer distance.

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	+Tx /+Rx, -Tx /-Rx 2 Wire
Output	+Tx /+Rx, -Tx /-Rx 2 Wire
Max. Distance	4000 Ft. @ 19,200 bps
Input output cable	Shielded Twisted Pair Cable-90 Ω (ohms) / Km.
Transient Protection	2500 V Peak
Front Panel indication	Tx, Rx, Power.
Power Supply	24 V-DC. (230 V Mains –Optional)
Power	Max. 20 V A Built-In Power Supply.
Power Supply	230 V, 50 Hz
Size	70 (D) x 75 (W) x 112 (H) mm



Long Distance Cable Laying

Long distance cable between two 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 $90 \pm$ ohms per meter. The cable should run through conduit pipe for physical protection.

Front Panel Diagram of the unit.

			+T/R	-T/R		GRD2		
			RS485 Output					
TD RD			PWR					
Mains –230 V			RS 485 Input			24V-DC		
L	N	E	GRD1	+T/R	-T/R	+ ve	- ve	