



SOYAL AR-485REP-V3 Multiple Isolated RS4485 Repeater Instruction Manual

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- 485 communication lines must use shielded twisted-pair; all 485 equipment on the lines must be connected to same GND ground.
- The theoretical length of 485 communication line should not exceed 1000 meters. According to actual experience and on-site environment, it is recommended that the total length should not exceed 500 meters, 485repeater should be added if it exceeds 500 meters
- The theoretical maximum of devices on the 485 bus should not exceed 64; If it exceeds, a 485 repeater should be added.
- The 485 bus must be a hand-in-hand bus structure, and resolutely avoid the way of star and bifurcation connection.
- The 485 wirings should be as far away from interference sources as possible such as high-voltage power

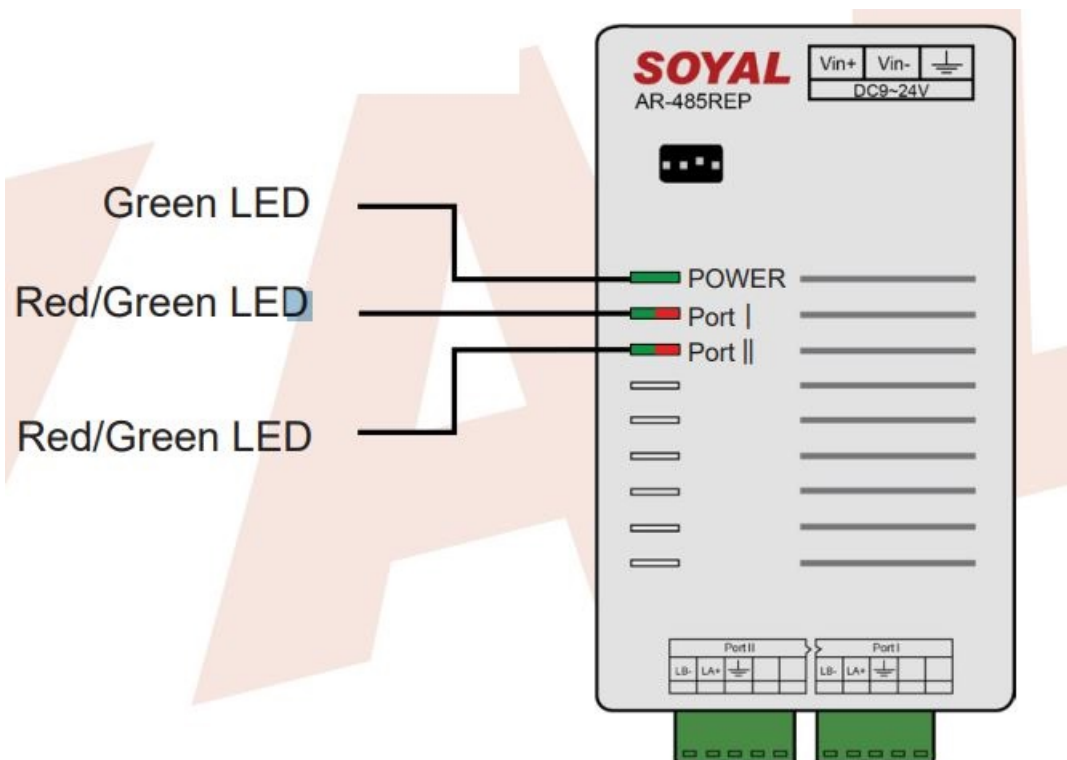
supply / electric mains / high-radio frequency signal cables, and not to be bundled together; if it is necessary to run with these cables in parallel, please add EMT conduit tube.

Specification

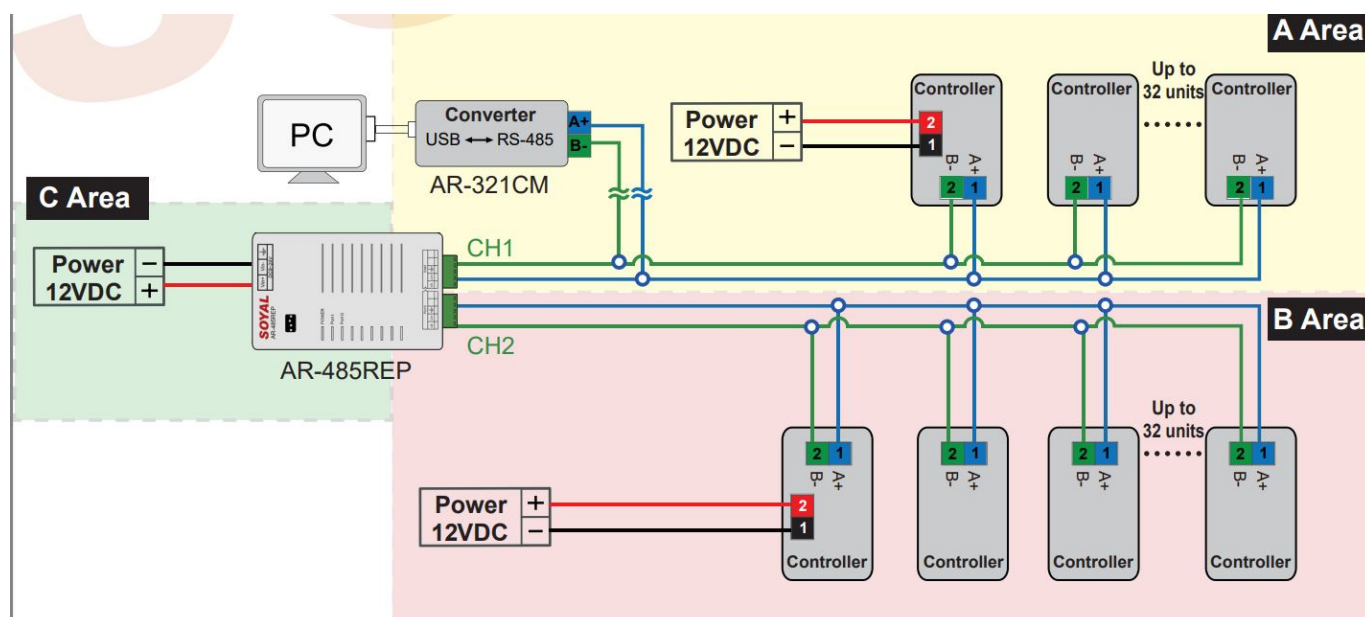
Model Name	AR-485REP-V3
Operating Voltage	9-24VDC
rated power	0.4W(9V/46mA : 12V/34mA : 24V15mA)
Communication rate	300-11500 bps
Operation Temperature	-20℃ to +70℃
Surge Protection	3KV
Responsibility	1-64 nodes
Communication distance	0-1000 meters(theoretical value)
Housing Material	ABS
Dimension (mm)	106.5(H) x 66(W) x 27.7(D)
Weight (g)	approx. 50

Green LED (Power) will keep lighting up when powering on.**Indicator**

- Red/Green LED(Port | /Port ||) flashing means data is receiving from RS-485 is communicating.
- Red/Green LED (Port | /Port ||) flashing means data is receiving from RS-485 is communicating



Installation Wiring



Documents / Resources



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AR-485REP-V3, Multiple Isolated RS485 Repeater, AR-485REP-V3 Multiple Isolated RS485 Repeater