# RS485 ISOLATED REPEATER

### INTRODUCTION

The DCC302 is an optically isolated RS485 to RS485 line repeater that can be used to isolate a piece of equipment from the rest of the network. As a repeater, it extends the distance of an existing RS485 network an additional 1.2 km (4000 ft). Data signals and the power inputs connect to the terminal block.

The repeater operates on an external 18~36 VDC power supply. The enclosure can be easily mounted on a standard 35mm DIN rail, and also surface mounted.



- Extend distance of an existing RS485 network by upto 4000 feet
- 1800V optically isolated data lines
- -40 to 80°C operating temperature
- Modbus ASCII/RTU

DCC302

 Provides mutual isolation between the two RS485 ports and power supply SPECIFICATIONS All specifications at ambient of 25 °C, unless specified otherwise

Padix	B B B B B B CC302 SOLATED REPEATER 24W/c C→C=O C→C
COMMUNICATION INTERFACE	
Port1 Port2	RS485 : D1+, D1-, GND1 RS485 : D2+, D2-, GND2
Protocol Baud rate (bps)	Modbus RTU/ASCII Upto 115200
INDICATORS Power	Red LED
RxD1/TxD1 Communication OK	Orange LED
Communication failed RxD2/TxD2 Communication OK	Green/Red LED Orange LED
Communication ok	Green/Red LED
POWER SUPPLY Supply voltage (DC jack) Power consumption	18~36 VDC 0.05A @24VDC
2 mm male connector plug with 1.5 connection to a 24VDC supply	5meter cable is included for
MECHANICAL Material	ABS plastic
Mounting	a) Snap on for 35 mm DIN rail to DIN46277
Installation	b) Surface mount DIN rail Mounting
Dimensions (in mm) (See Fig1)	30.1(H) X 48.3(W) X 95(L)
ENVIRONMENTAL CONDITIONS Operating temperature Storage temperature Ambient relative humidity	0 to 65°C -30 to 80°C 10 to 90% (non-condensing)
CONNECTIONS Single/ stranded wires	< 2.5mm², AWG 14
AC POWER ADAPTOR FOR DCC302 Model Mains supply voltage	To be ordered separately ACA203 100~230VAC, 50/60hz



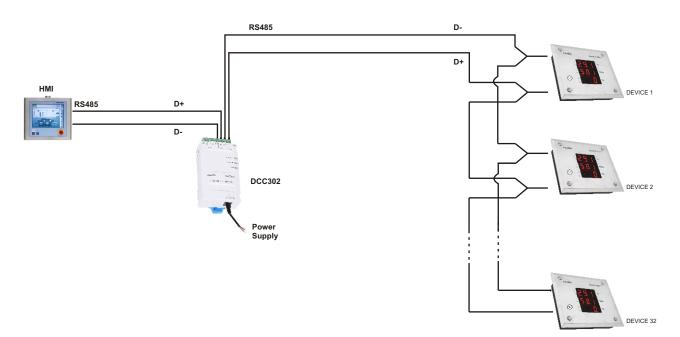
# RS485 ISOLATED REPEATER

### CONNECTION DETAILS

20 20 20 20 20 20 20 20 20 20 20 20 20 2	? <sup>2</sup> / <sub>9</sub> <sup>1</sup> / <sub>2</sub>
	RxD1/TxD1
	RxD2/TxD2
	PWR
radix	DCC302
RS-485 IS	OLATED REPEATER

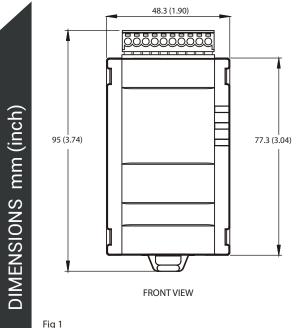
DCC302

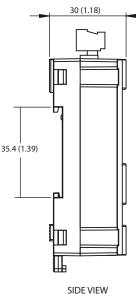
## APPLICATION





# **RS485 ISOLATED REPEATER**





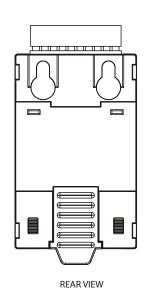


Fig 1

### ORDERING INFORMATION

**RS485 ISOLATED REPEATER** Model : DCC302 Order Code : 2560

#### In the Box

DCC302 1 pc Power Cable, 1.5 meter for 24VDC 1 pc

AC POWER ADAPTOR FOR DCC302 : ACA203 Model Order Code : 2571

#### ENQUIRIES

Instruments: sales@radix.co.in Sensors: sensors@radix.co.in Gauges: gauges@radix.co.in Automation: automation@radix.co.in Level: level@radix.co.in

#### **RADIX ELECTROSYSTEMS PVT LTD** EL-135/136/137, Electronics Zone TTC Indl. Area, MIDC, Mahape Navi Mumbai - 400 710, India + 91 22 42537777 • sales@radix.co.in



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