RS232 to RS485/RS422 Converters

Model RMSI422

Model PC422/PC485

Manufactured by a
Quality Endorsed Company
Certified System
ISO 9001:2008
SAI GLOBAL

AUSTRALIAN OWNED
AUSTRALIAN MADE

EMC COMPLIANT
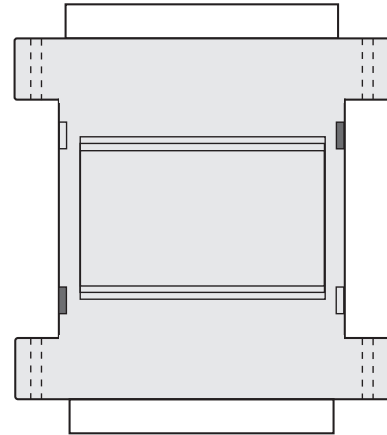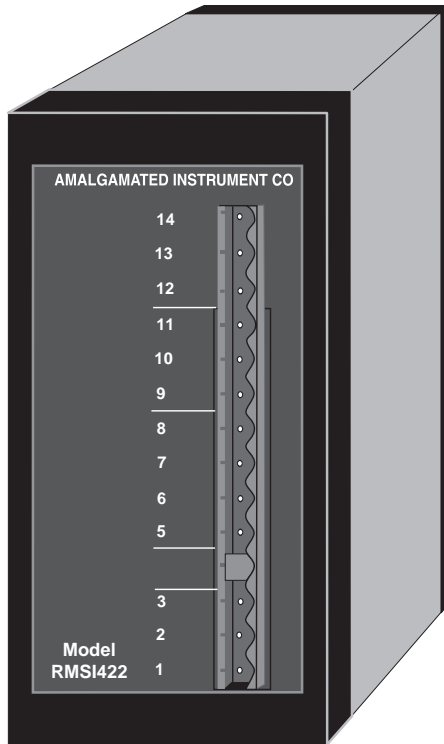
Description

The RMSI converters are supplied in a standard DIN rail mount (35mm rail EN50022) package. Model RMSI422 is a RS232 to RS422 converter. Model RMSI485 is a RS232 to RS485 converter.

Input and output signals are fully isolated from the power supply (500V isolation) and from each other. Electrical connection is via plug in screw terminals, maximum 2.5mm wire.

Baud rates are from 300 to 38400 baud.

Dimensions:
91mm (h) x 44mm (w) x 120mm (d) including front connector and DIN rail clips.

Order Code

RMSI422-240 - Powered by 240VAC

RMSI422-110 - Powered by 110VAC

RMSI422-24 - Powered by 24VAC

RMSI422-DC - Powered by 12-48VDC

RMSI485-240 - Powered by 240VAC

RMSI485-110 - Powered by 110VAC

RMSI485-24 - Powered by 24VAC

RMSI485-DC - Powered by 12-48DC

Description

The PC422 and PC485 converters are supplied as a through connector, self contained package. The PC485 gives RS232 to RS485 conversion. The PC422 give RS232 to either RS485 or RS422 conversion.

Power for the units is obtained from an IBM PC or compatible RS232 port via pins 7 (GND) & 20 (+12V via DTR line). Alternatively the converters may be externally powered (9 to 12VDC), see wiring diagram overleaf. The use of an external power source is generally only required when a low power serial card is used in the computer and multiple external units are being addressed or when the serial output does not provide power.

Baud rates are from 300 to 38400 baud. The converter automatically detects the baud rate being used.

Connection at the RS232 end is via a 25 way female "D" connector. At the RS485/RS422 ends the connector is a 25 way male "D" connector.

Operation mode and setup selections are made via circuit board links.

Dimensions:
63mm (h) x 56mm (w) x 16mm (d)

Order Code:

RS232 to RS485/RS422	**PC422**
RS232 to RS485	**PC485**

Models PC422 and RMSI422 are ideal for use in connecting two RS232 devices together over extended cable lengths (up to 1200 metres)
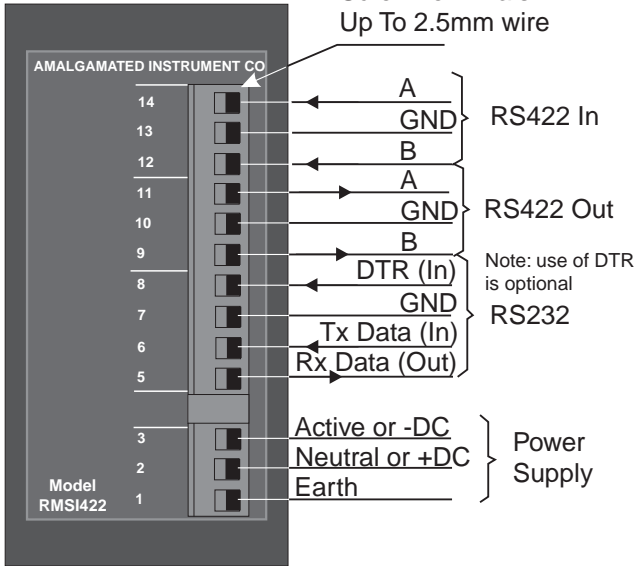
RS232422-2.0-0

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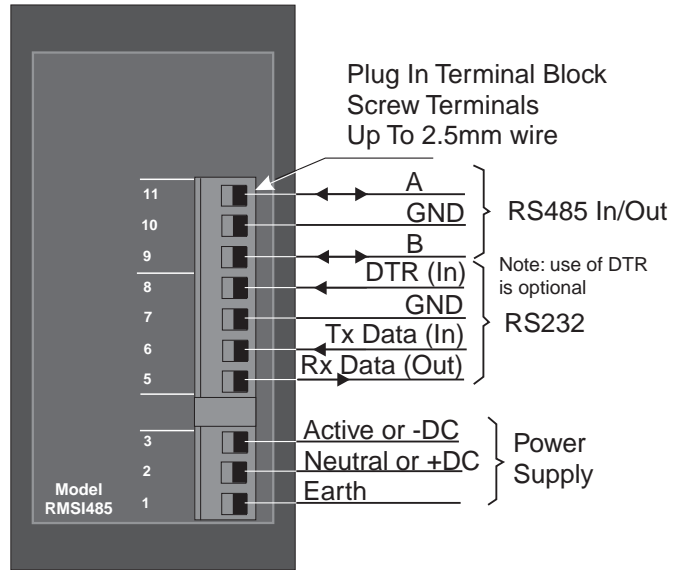# Electrical Connections For RMSI422, RMSI485, PC485 and PC422

Model: RMSI422
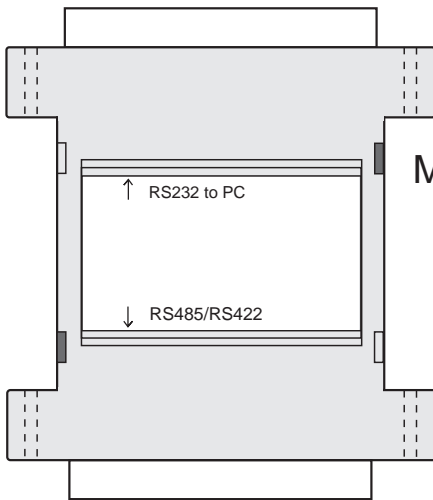
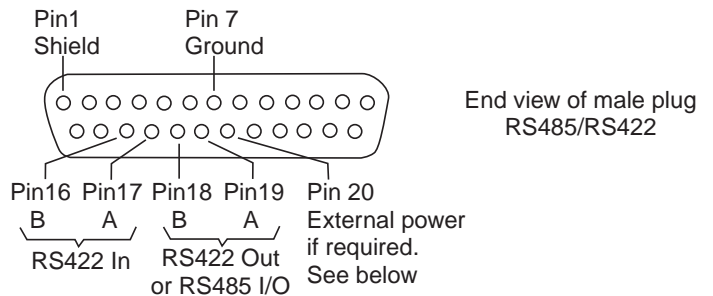Plug In Terminal Block
Screw Terminals
Up To 2.5mm wire

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Pin	Signal	Group
14	A	
13	GND	RS422 In
12	B	
11	A	
10	GND	RS422 Out
9	B	
8	DTR (In)	Note: use of DTR is optional
7	GND	RS232
6	Tx Data (In)	
5	Rx Data (Out)	
3	Active or -DC	
2	Neutral or +DC	Power Supply
1	Earth	

Model RMSI422

Model: RMSI485

Plug In Terminal Block
Screw Terminals
Up To 2.5mm wire

Pin	Signal	Group
11	A	
10	GND	RS485 In/Out
9	B	
8	DTR (In)	Note: use of DTR is optional
7	GND	RS232
6	Tx Data (In)	
5	Rx Data (Out)	
3	Active or -DC	
2	Neutral or +DC	Power Supply
1	Earth	

Model RMSI485

Female End RS232
Connects To PC

↑ RS232 to PC

↓ RS485/RS422

Male End RS485/422

Model: PC422

Pin 4 RTS
Pin 2 Tx (In)
Pin 7 Ground
Pin 3 Rx (Out)
Pin1 Shield

End view of female plug RS232

Pin8 CD
Pin20 DTR
Pin6 DSR
Pin5 CTS

Power from PC applied at Pin 20 (+12V) and Pin 7 (GND)

Pin1 Shield
Pin 7 Ground

End view of male plug RS485/RS422

Pin16 B
Pin17 A
Pin18 B
Pin19 A
Pin 20 External power if required. See below

RS422 In
RS422 Out or RS485 I/O
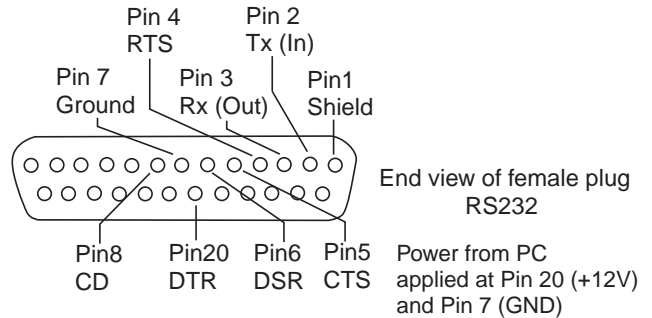
The PC422 & PC485 are normally powered from the computer port. If required the converters may be externally powered. Connections for externally powering the units are shown below.

Power Supply

+ ○ Pin 20 RS485/422 end

6 to 15VDC

- ○ Pin 7 (Ground) RS485/422 end
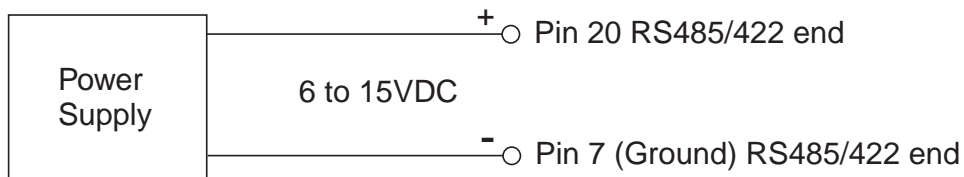
Note: Power supply must be regulated, voltage range 6-15VDC.