

SAFETY

Only use your BAX-COM RS485 to RS232 Converter in a clean, dry, dust-free environment unless it is protected by an appropriate protective housing.

⚠ WARNING

Your BAX-COM RS485 to RS232 Converter is not designed for use in intrinsically safe environments. Installation is only to be carried out by competent, qualified and experienced personnel. Wire in accordance with your national wiring regulations. Failure to do so can result in injury or death by electric shock. Use a class 2 isolated power supply for the +12 VDC.

ELECTROMAGNETIC COMPATIBILITY (EMC)

⚠ CAUTION

This is a Class A product. In a domestic environment this product may cause radio interference. The user may be required to take adequate measures.

This product is intended solely for use in general CCTV applications.

The product must be installed and maintained in accordance with good installation practice to enable the product to function as intended and to prevent problems. Refer to Baxall Limited for installation guidance.

MANUFACTURER'S DECLARATION OF CONFORMANCE

The manufacturer declares that the product supplied with this document is compliant with the essential protection requirements of the EMC directive 89/336 and the Low Voltage Directive LVD 73/23 EEC. Conforming to the requirements of standards EN 55022 for emissions, IEC801 parts 2, 3 and 4 for immunity and BS415 superseded by EN60950 for Electrical Equipment safety.

UNPACKING

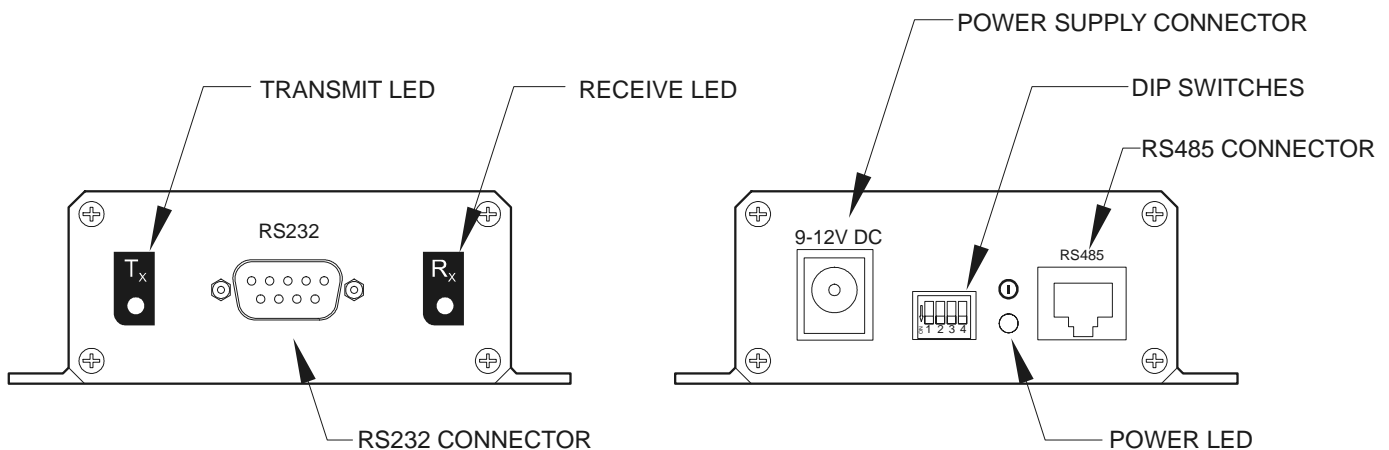
Keep your packaging. The packaging should contain:

- A BAX-COM RS485 to RS232 Converter
- An RJ45 to RJ45 connecting lead
- Mounting Kit
- PSU11 +12 VDC, class 2 isolated, 50mA power supply
- These instructions
- 9-way D-type connector plug

Check the product code on the serial number label. If you have an incorrect item or it is damaged then inform the suppliers and carriers immediately. If this is the case then do not attempt to use your unit.

DESCRIPTION

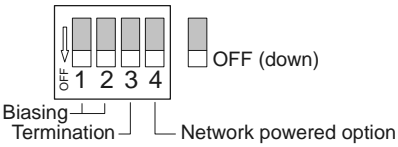
The BAX-COM converts between RS232 and RS485 signals at a baudrate of 9600 and may be used in either direction. BAX-COM units can be connected together.



SWITCH SETTINGS

The four DIP switches located next to the RS485 connector are used for terminating and /or biasing the RS485 data network. Biasing and termination is not needed unless the RS485 data network is longer than 20m, or the data cable is subject to electrical interference. Biasing is only applied to one end of the network, whereas termination should be applied at the biasing point and at the other end of the network (intermediate nodes are not biased or terminated).

Switches 1 and 2 are for biasing and must be both OFF or both ON. Switch 3 turns termination ON or OFF. Switch 4 must be ON when the BAX-COM is powered via the network.

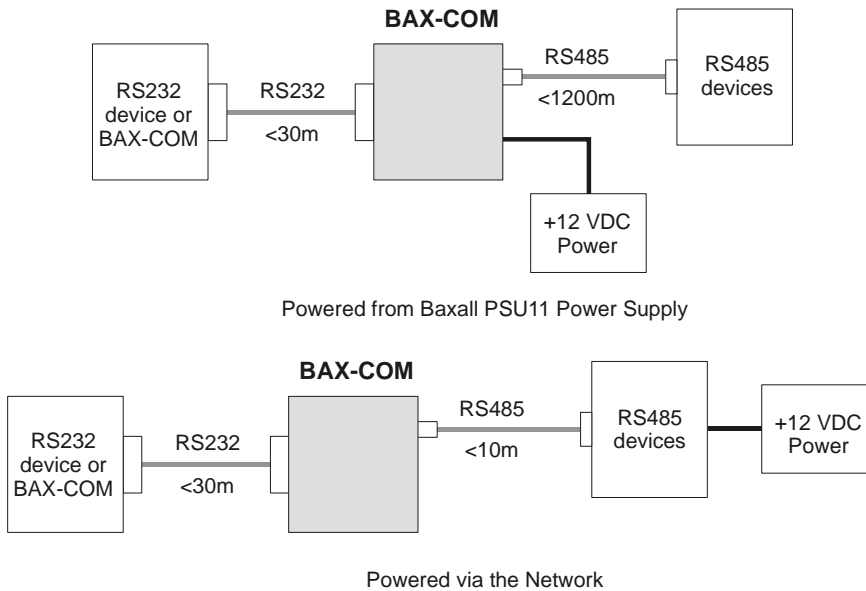


Network setting	Switch 1	Switch 2	Network setting	Switch 3
Biased	ON	ON	Terminated	ON
Not Biased*	OFF*	OFF*	Not Terminated*	OFF*

*Default setting

INSTALLATION


The BAX-COM RS485 to RS232 Converter connects as shown below. The unit requires +12 VDC to operate. This may be derived from a 12V DC class 2 isolated power supply such as the Baxall PSU11 or via the RS485 network connection itself. The power-on LED will be illuminated when the BAX-COM is correctly supplied with power.



Where the BAX-COM is powered via the network, switch 4 must be set to ON (UP). If connecting to a PC, a 2 metre cable is available from Baxall (KW30).

SPECIFICATION

Input/Output : RS232, RS485 at 9600 baud in accordance with EIA RS-485-1983

Power : +12 VDC class 2 isolated, 50mA max. (0.6 Watts). Negative  Positive

Dimensions : 85 x 64 x 32 mm.

Temperature limits : Only use this product between the temperatures of -20° and +40° C.

PIN OUT

RS485		RS232	
Pin	Connection		
Shield	Chassis Ground	1	N/C
1	Signal Ground	2	Transmit Data
2	Power supply positive (+12 volts unregulated)	3	Receive Data
3	RS485 wire 1 (signal +)	4	N/C
4	No connection	5	Ground
5	No connection	6	N/C
6	RS485 wire 2 (signal -)	7	N/C
7	Signal Ground	8	N/C
8	Power supply positive (+12 volts unregulated)	9	N/C

