

**NOTE**

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:- Reorient or relocate the receiving antenna. - Increase the separation between the equipment and the receiver. - Connect the equipment to an outlet on a circuit different from that to which the receiver is connected. -Consult the dealer or an experienced radio/TV technician for help.

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**OPERATING INSTRUCTIONS**  
for  
**GO232 - RS232**  
**FIBRE OPTIC MODEM**

LF151

# GO232 - RS232

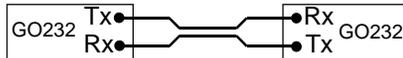


## DESCRIPTION

The **GO232** is a low cost, full duplex to 19200 baud fibre optic RS232 modem. It supports software handshakes (Xon/Xoff), utilising up to 100 metres of twin core 1mm plastic fibre. The RS232C interface is via a standard 25 way "D" connector, available in male or female types. DTE or DCE configuration is selected by a switch on the face of the GO232.

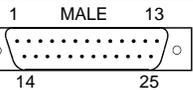
\* The GO232 is supplied with a power unit (9 volts DC 200mA).

## FIBRE CONNECTION DETAILS



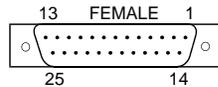
## SETTING UP

1. Check that the power units are the correct type for the country of operation and if so connect to the mains.
2. Connect Power leads to the GO232s and check red power indicators illuminate.
3. Select DTE or DCE connector configuration. (Computers are usually DTE configuration and peripherals DCE)
4. Route cable following manufactures recommendations concerning required environment and minimum bend radius.
5. Take one end of the twin fibre and, using a sharp knife, cut the fibres to give clean ends.
6. Loosen cable clamp bolt, and insert fibres into guide channels noting which is Tx and Rx.
7. Once fibres are inserted and pushed fully home, tighten cable clamp bolt.
8. Take remaining end of twin fibre cable and cut as in step 5 above and insert fibres into second GO232.
9. Connect to equipment. The GO232 has a conductive case and by using the captive screws on the RS232 connector to fix it to the equipment the electrical screening properties will be improved.



Pin	DTE	DCE
1	No Connect	No Connect
2	Tx	Rx
3	Rx	Tx
4	RTS	CTS
5	CTS	RTS
6	DSR	DTR
7	GND	GND
8*	DCD	DCD
20	DTR	DSR

\* Pulled high by 5K1 resistor



## OPTO-ELECTRICAL CHARACTERISTICS

### Transmitter at 25°C

Peak Output (typical)	1.5 mW/sr
Wavelength	660nm
Spectral Half Line Width	30nm
Life to Half Brightness (-3dB) (typical)	100,000 Hours
Peak Coupled Power (typical)	-16dB after 1m of cable
Typical Power	70mA., at 9Volt DC.

### Receiver at 25°C

Max. Sensitivity (typical)	-36dB (at 660nm)
Saturation Level (typical)	-16dB (at 660nm)
Spectral Range	380 -1100nm (S=10% Smax.)
Smax. Wavelength	850nm
Recommended Cable Attenuation	200dB/Km or less
( Toray PFU-CD 1002 or equivalent )	