

VMB1RS



**Serial Interface
for VELBUS system**



Features:

- ◇ Can be used to control the VELBUS system through a computer.
- ◇ VELBUS message processing on the computer.
- ◇ Full duplex RS232C communication with PC.
- ◇ Galvanic separation between the computer and the VELBUS system.
- ◇ LED indication for:
 - Power voltage.
 - Data reception and forwarding to the computer.
 - Data reception and forwarding through VELBUS.
- ◇ Required mains voltage: 12V ... 18VDC
- ◇ Consumption: 17mA.
- ◇ Dimensions (L x B x H): 43 x 40 x 18mm.

VELBUS:

2-wire communication for the VELBUS data and 2 wires for power.

Data transfer: 16,6Kbit/s.

Serial data protocol: CAN (Controller Area Network)

Short-circuit proof (towards negative or positive of power)

Self restoring after 25 seconds in case of a bus error.

RS232C:

Baud rate: 38400

Data bits: 8

Parity: none

Stop bits: 1

RTS: high

DTR: low

Reception buffer for 6 commands.

Report when reception buffer is full and free for reception.

Bus fault and 'bus active' status report.



VELBUS

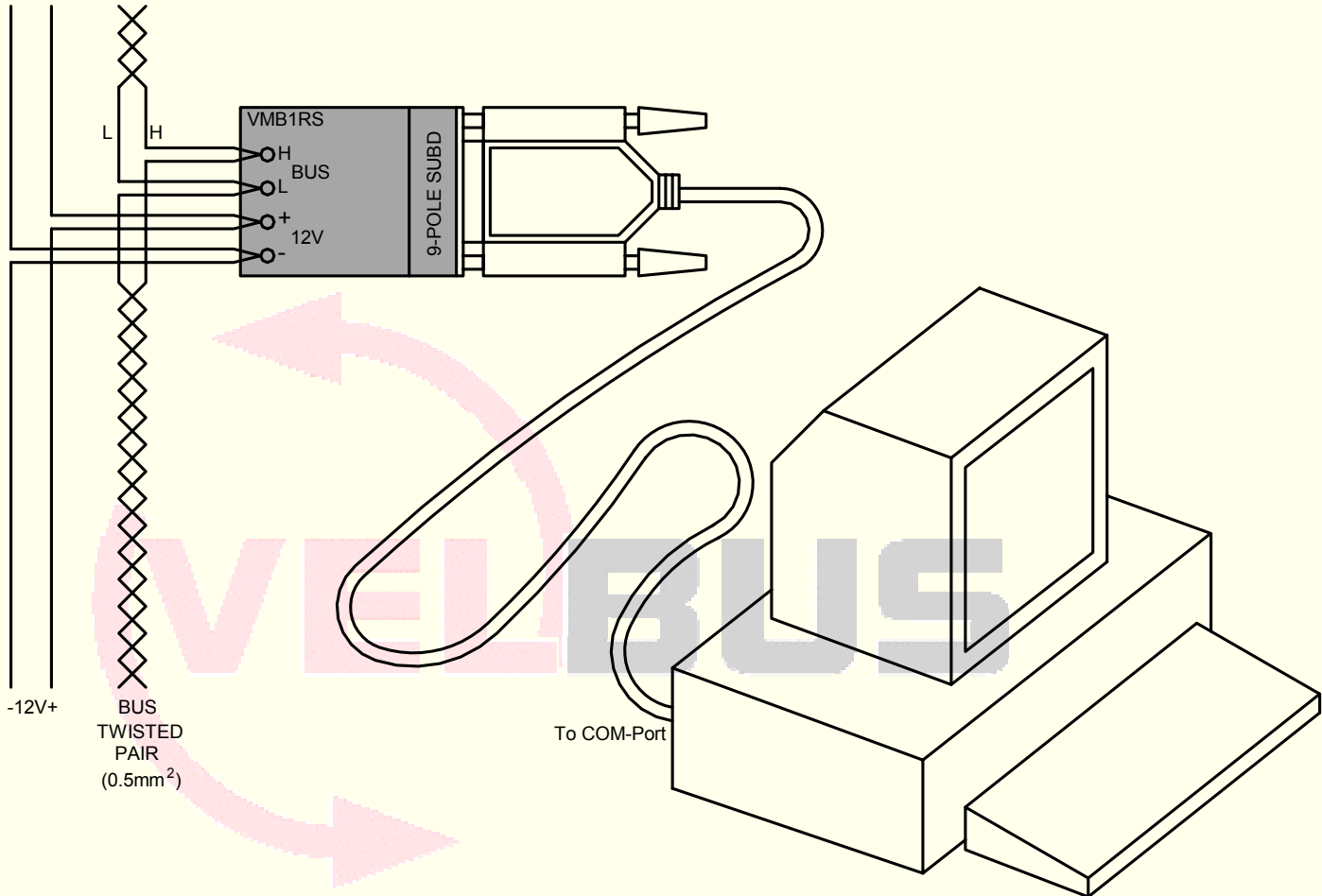


Connection:

Connect the 12VDC (mind the polarity) to the module. Make sure to use a heavier wire gauge (1mm²) with long connections.

Connect the bus (mind the polarity) to the module. Use a twisted-pair cable with a 0.5mm² gauge or more with longer connexions.

Connect the module to a COM port of the computer. You may use a Velleman serial cable, type CW014.



Remark: If the module is connected as the final device on the VELBUS, place the 'TERM' jumper. Remove the jumper in all other cases.



Use:

Connect the module to the VELBUS system and the computer (see Connexion).

Run a computer programme allowing you to communicate with the VELBUS system. You can also write a programme of your own.

When powering the module, a 'Bus active' and 'Reception ready' message will be sent to the computer.

All messages appearing on the VELBUS system will also be sent serially to the computer.

Valid commands generated by the computer will be sent to the module via the COM port.

These commands are placed on the VELBUS system through the serial interface module.

When an excessive amount of commands have been sent in one time, the reception buffer will be filled. This will be reported to the computer. The computer programme must interrupt the forwarding and wait for a 'Reception ready' message to be able to offer new commands.

If the commands can not be placed correctly on the VELBUS, a bus error will occur and will be forwarded tot the computer. The serial interface module will auto-restart after 25 seconds and erase the reception buffer.

