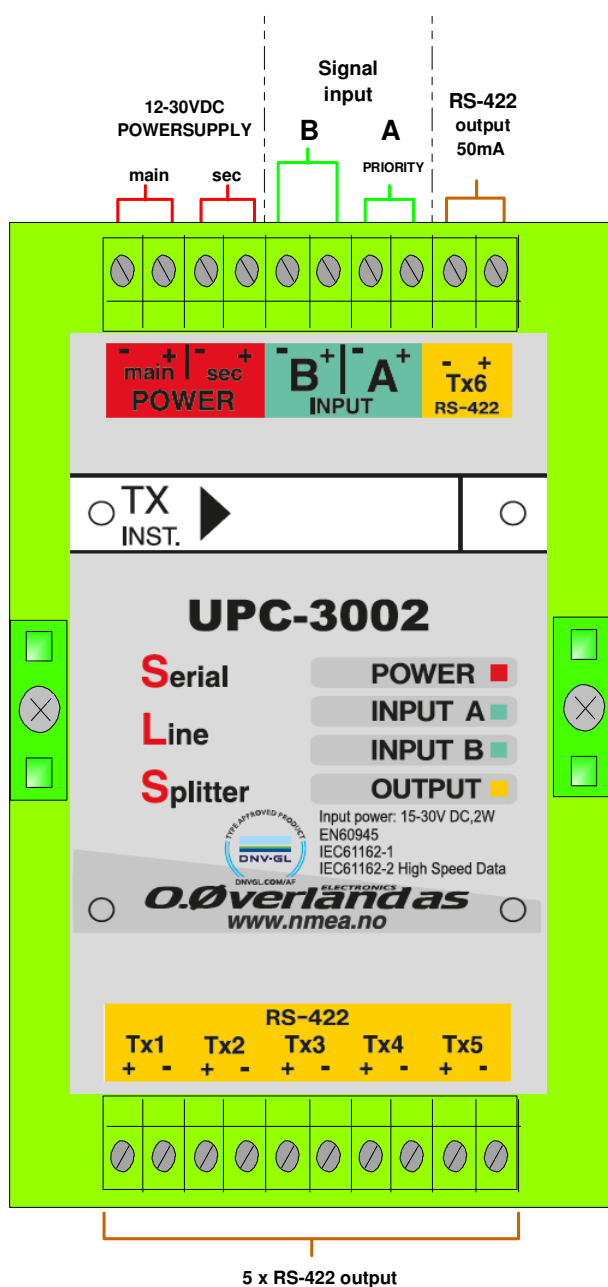


UPC-3002

Serial Line Splitter

Input: RS-232, RS-422, RS-485 NMEA0183.



UPC3002 Specifications:

UPC3002 is a serial line splitter with two separate inputs and six outputs. Dual power input with autoswitch.

Input A and B are separated. Input A is prioritized. If there is data on both input A and B, input A is used. Input B is used only if input A is out.

The powersupply and both inputs are galvanic isolated from the outputs.

Specifications:

*Powersupply main: 15-30Vdc 2W
Powersupply sec: 15-30Vdc 2W*

*Input A,B: NMEA, RS232
RS422, RS485
max: 115200 baud*

*Outputs 1-6: RS-422, 50mA max,
Short Circuit Protected*

*Module-box with DIN-rail mounting
Dimensions in mm: L-130 x H-50 x W-80*



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Installation notes

All connections to the serial splitter is done with plain screw terminals. The screw terminal will accept any cable up to 1,5 mm². For longer signal cable runs use shielded CAT5E cable or better (eg. Belden 9226723-04). The splitter is a "single listener/single talker" device, ie. each output should drive a single receiver, and the the input should be the sole listener on the input connection. The splitter does not decode any NMEA sentences, and will pass all sentences and commands unchanged, regardless of message format, checksums, etc.

The serial line splitter has true galvanic isolation between the power supply, inputs and outputs. This means that inputs, outputs and power supply don't have to be referenced to a common ground and this can be an advantage in larger installations. In installations where a common ground is preferred, it is permissible to connect these grounds together. In this case, mount a ground bar close to the serial line splitter and tie all ground connections to this.

If the connections on the remote system has designators "A", "B" and optionally "C", use these connections:

<i>IEC 61162-1/IEC 61162-2 Signal name</i>	<i>UPC 3002/3005/5000P/6000 Connector marking</i>	<i>Description</i>
A	+	Positive signal, will be negative with respect to - when idle.
B	—	Negative signal, will be positive with respect to + when idle.
C	Not used	Ground. Not used on UPC device. Do not connect to - The installer may opt to tie all external grounds together with a simple ground bar, see description above.

In case any of the outputs are unused, the unconnected outputs should be terminated with a 120ohm resistor in order to comply with the EMC regulations. Cut the terminals of the resistor to the appropriate length and connect the resistor directly between the + and ? screw terminals.



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