

Information OMC-3494

The OMC-3494 is an universal signal converter for DIN rail. The unit can read in a field signal (RS 232) and convert to a RS 422 or current loop signal.

Input Module

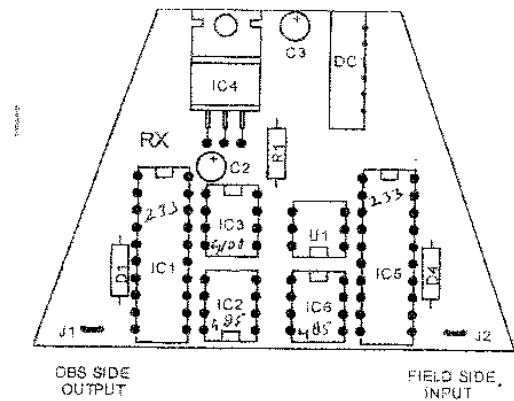
The converter can convert the following signals:

Field side	OBS(Observator) side
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OMC-3494 INGANGSMODULE

- RS232 TO RS422
- RS232 TO RS232 isolated
- RS232 TO CURRENTLOOP
- RS232 TO RS422 isolated
- RS232 TO CURRENTLOOP isolated

- RS422 TO RS232
- RS422 TO RS422 isolated
- RS422 TO CURRENTLOOP
- RS422 TO RS232 isolated
- RS422 TO CURRENTLOOP isolated



Rx will be used for signal converting from the field to the OBS equipment.

Place IC

- | | |
|----------------------------|-------------------------------|
| RS 232 input signal | Place IC5, remove IC6 |
| RS 422 input signal | Place IC6, remove IC5 |
| RS 232 output signal | Place IC1, remove IC2 and IC3 |
| RS 422 output signal | Place IC2, remove IC1 and IC3 |
| Current loop output signal | Place IC3, remove IC1 and IC2 |

For a RS 232 output signal place Jumper J1, for a RS 232 input signal place jumper J2.

Output Module

The converter can convert the following signals:

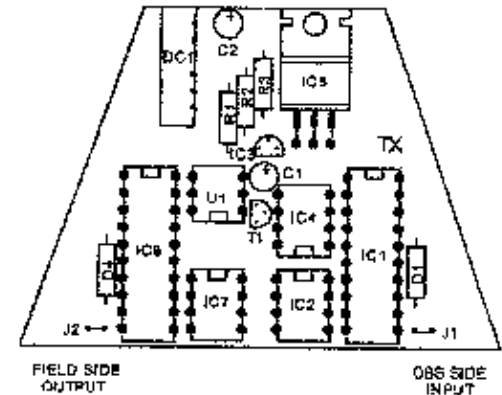
OBS(Observator) side Field side

OMC3495 UITGANGSMODULE

RS232 TO RS232 isolated
 RS232 TO RS422
 RS232 TO RS422 isolated

RS422 TO RS232
 RS422 TO RS232 isolated
 RS422 TO RS422 isolated

CURRENT LOOP TO RS232
 CURRENT LOOP TO RS422
 CURRENT LOOP TO RS232 isolated
 CURRENT LOOP TO RS422 isolated



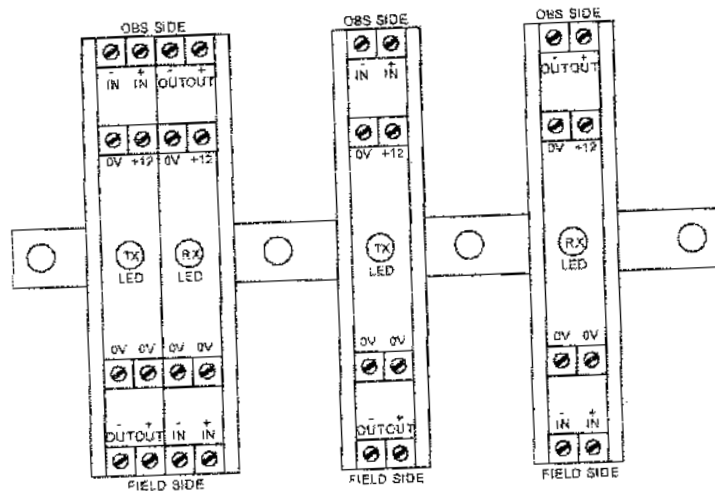
Place IC

RS 232 input signal	Place IC1, remove IC2 and IC4
RS 422 input signal	Place IC2, remove IC1 and IC4
Current loop input signal	Place IC4, remove IC1 and IC2

RS 232 output signal	Place IC6, remove IC7
RS 422 output signal	Place IC7, remove IC6

For an RS 232 Current loop input place Jumper J1, Place jumper 2 for a RS 232 output.

The signal converter can be placed directly on a din rail. In the below drawing you see a full duplex converter and two half duplex units showing the correct connections.



The LED in the middle of the converter showed the data transmission. Tx showed that OBS equipment transmit the data and the Rx showed that OBS equipment receive the data.

RS 422 signals can be connected to -in and to de +in.

RS 232 signals can be connected to +in or + out depending receiving or sending data.

Specification:

Power supply : 10...30 Volt dc
Power supply with iso: 10...15 Volt dc
Current drain : 30 mA
Current drain with iso: 100 mA
Box : UAG-

Connections

The power supply for the signal converter is 10 to 30 Volt dc. With the isolated option is the power supply 10 to 15 Volt dc.

The power supply can be connected as showed in the drawing.

