

Prepared Jonas Hemming	Date 2015-12-23	Version A	No 14/TREP-600:00 227
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**Limitations for external connections,
control unit 500:01 137 for Oden Control.**

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1 Generic

1.1 Document history

Version	Date	Comment	Sign
A	2015-12-23	Initial release	JH

1.2 Definitions

1.3 Abbreviations

TBD	"To Be Defined". Specification not yet definierad.
TBC	"To Be Confirmed". Specification not yet confirmed.
NA	Not applicable.

1.4 References

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2 External connections

2.1 Signal limits and conditions

Connection	Absolute maximum rating	Operating conditions
Drive supply	$V_{D+} \leq 55 \text{ VDC}$	$V_{D+} = 20 - 48 \text{ VDC}$
Logic supply	$V_{L+} \leq 55 \text{ VDC}$	$V_{L+} = 16 - 48 \text{ VDC}$
Digital input signals (ON-OFF/3-POINT, OPEN/CLOSE)	$V_{DIN} \leq 28 \text{ VDC}$	$V_{DIN} = 12 - 24 \text{ VDC}$ $V_{DINL} < 3.5 \text{ VDC}$ $V_{DINH} > 10 \text{ VDC}$
Manual input signals	$V_{MIN} \leq 28 \text{ VDC}$	$V_{MIN} = 3.3 \text{ VDC}$ $V_{MINL} < 0.8 \text{ VDC}$ $V_{MINH} > 2.5 \text{ VDC}$
Digital output signals	$V_{DOUT} \leq 28 \text{ VDC}$	$I_{SINK} < 100 \text{ mA}$ @ $V_{DROP} < 2.6 \text{ VDC}$
Analogue input signal (V)*	$V_{AIN} \leq 28 \text{ VDC}$	$V_{AIN} = 0 - 10 \text{ VDC}$
Analogue input signal (mA)*	$V_{AIN} \leq 14 \text{ VDC}$	$I_{AIN} = 0 - 20 \text{ mADC}$
Analogue output signal	NA	$I_{AOUT} = 0 - 20 \text{ mADC}$ @ $R_{LOOP} \leq 700 \Omega$

2.2 Explanations

Absolute maximum rating states the maximum level that can be continuously applied without destroying any internal hardware. Operating conditions states the normal range in which normal functionality can be expected.

V_{*L} states the highest input level that is guaranteed to be interpreted as a low (zero) signal, whereas V_{*H} states the lowest input level that is guaranteed to be interpreted as a high (one) signal.

* The analogue input signal can be configured as voltage (V) or current (mA) input by a jumper selection on the control board. Choose from the corresponding row in the table above to find the applicable values.