
Function Overview Software

DC-Panel TEV0605



Table of Contents

1	Menu Tree	3
2	Coding Plug	5
3	Configuration	5
4	Battery Voltage	7
5	Calibration	7
6	Error Types.....	7
6.1	Key Errors.....	7
6.2	Sensor Error	8
6.3	Attachement A1	9

Table of Figures

Figure 1:	Menu Structure	4
Figure 2:	Configuration Menu	6
Figure 3:	confirmable key alarms.....	8

1 Menu Tree

Following table lists the order of the menus in the control panel. The scroll keys lead to the next / previous menu item within one program level



(marked by

and



in the following overview). The enter key enables to skip between

program levels



(marked by).

The following overview shows an exemplary menu order. Depending on the configuration and / or the battery voltage not all menus can be displayed.

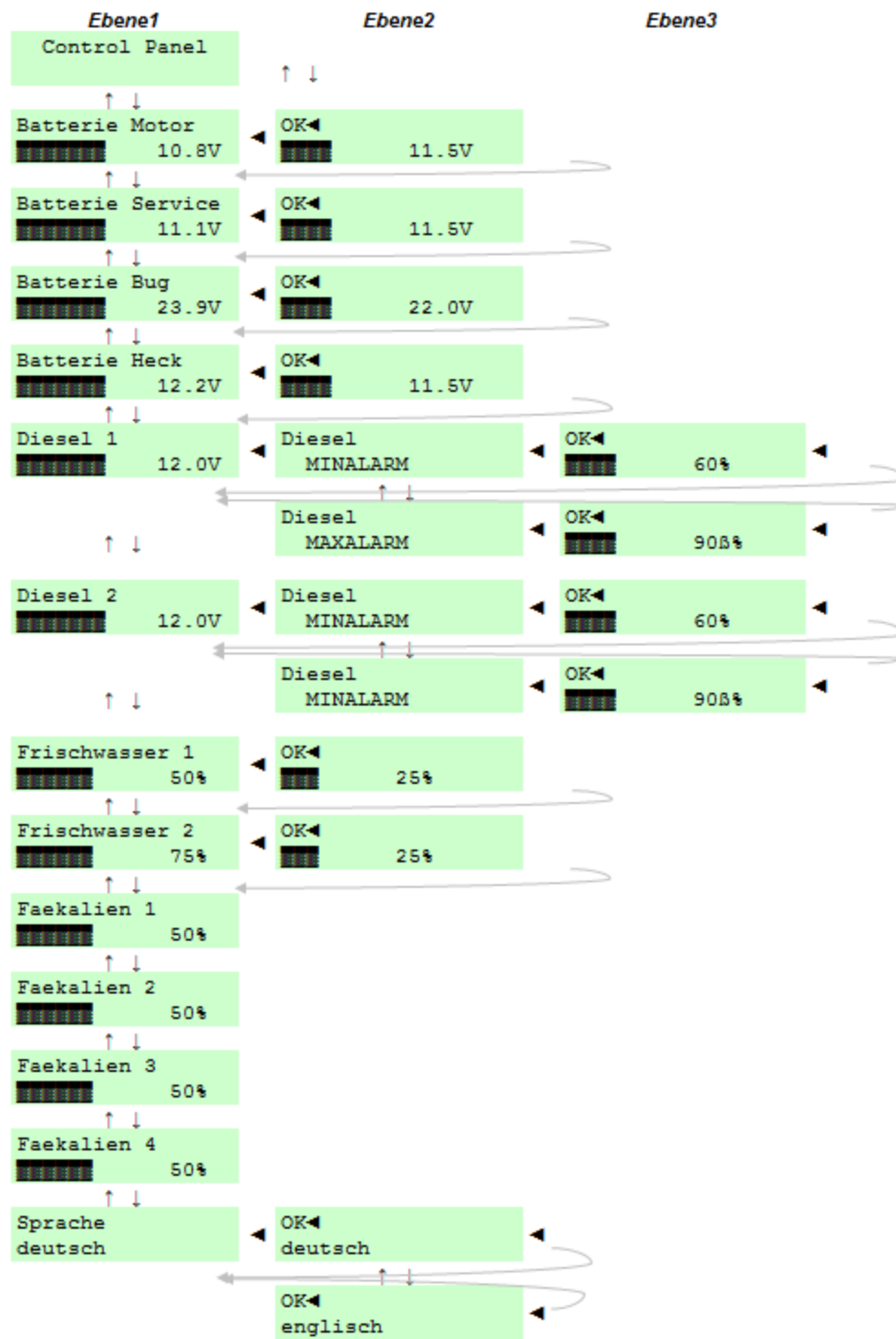


Figure 1: Menu Structure

2 Coding Plug

The water level can be read over a 5-wire sensor or a 2 wire 3...180 ohm sensor. By default a 5-wire sensor is assumed. If the 100% value of the 5-wire sensor of the connector will be reconnected to the ground, is no longer the 5-wire sensor in use but the 2 wire 3... 180 ohm sensor. This accounts for both water sensors, independently from each other. Additionally, it is possible to completely configure water sensor out of the display and alarm handling (see 3 Configuration).

3 Configuration

Switch to the configuration menu by consecutive pressing of the keys (and keeping them pressed).



Activation of a sensor = enable, makes the display appear and deactivation of a sensor = disable, suppresses the display and function.

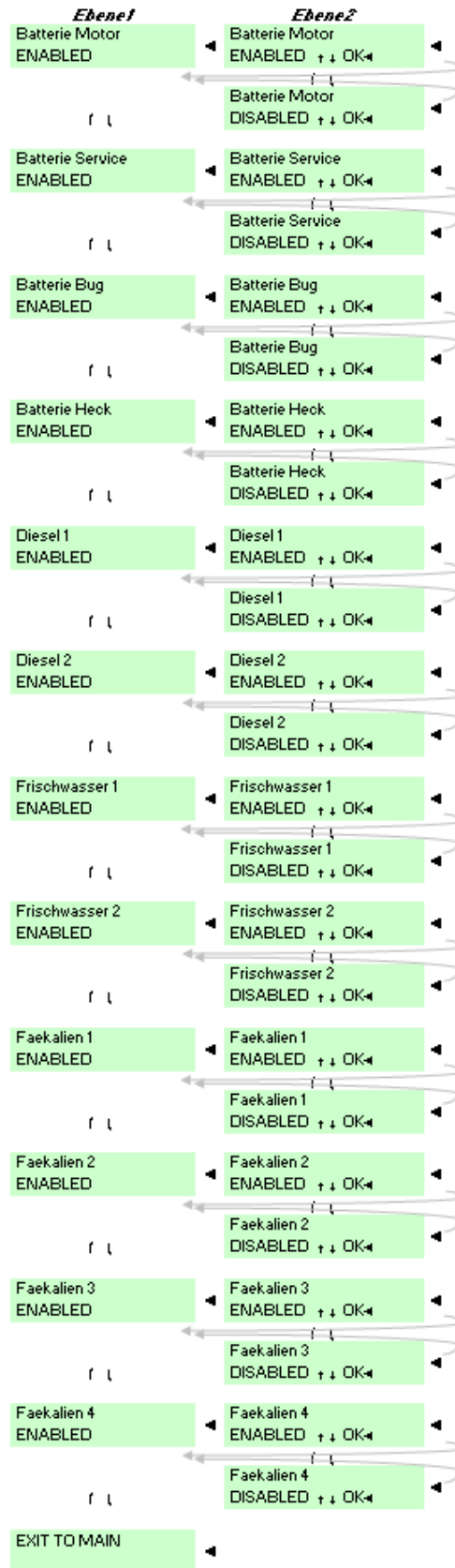


Figure 2: Configuration Menu

4 Battery Voltage

The input signal of the battery voltage for bow and tail (battery 3 and 4) can be 12 or 24 V.

- a) A voltage of < 18 V at the entrance
Connection of a 12 V battery is assumed. The programmable minimum value and the range of the bar chart in this case is 11.5..13.5 V.
- b) A voltage of > 18 V at the entrance
Connection of a 24 V battery is assumed. The programmable minimum value and the range of the bar chart in this case is 22..26 V.

5 Calibration

Should the voltage decline in the supply cables leading to the module, lead to inaccurate values, a calibration can be conducted as follows:

- a) Set a reference voltage of 12 V at battery entrance 1 = "battery engine" = X1512.1



- b) Switch the module off and back on by keeping the key pressed



- c) Accept the calibration value with this key
- d) Switch module off and back on

A calibration is only necessary in exceptional cases.

6 Error Types

6.1 Key Errors

In case of a key error, an appropriate circuit normally triggered over a control key, will not be switched over relays or an electronic driver. The cause can be a malfunction of the respective fuse. The key LED which operates the circuit will blink.



If the enter key is pressed for 5 seconds during this state, the error blinking can be terminated for some circuits. If at the same time several key errors occur, all malfunctioning key errors will be terminates simultaneously.

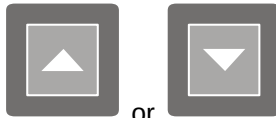
Key	Function	Alarm terminable?
Left		
F1	Interior lights	yes
F2	Navigation lights	no
F3	Anchor lights	no
F4	Steamer lights	no
F5	Refrigerator	yes
F6	Pressure wash pump	yes
F7	Bilge pump man.	no
F8	Navigation	no
F9	Anchor winch	no
F10	Winch control	yes
Right		
F1	Tricolor	no
F2	Deck wash pump	yes
F3	Bilge pump	no
F4	Stern flap	yes
F5	Roller reef system	yes
F6	Reserve	yes
F7	Reserve	yes
F8	Reserve	yes

Figure 3: confirmable key alarms

6.2 Sensor Error

It is a prerequisite for an error checking that the sensor is configured as “ENABLED” (see Figure 3 configuration).

The signals of the sewage, water and diesel sensors and the battery voltage are compared to the configured min / max values. In the event of a lower deviation or overriding the main menu jumps to the sub-menu. In addition to the bar chart a blinking “!” also indicates the incorrect value.

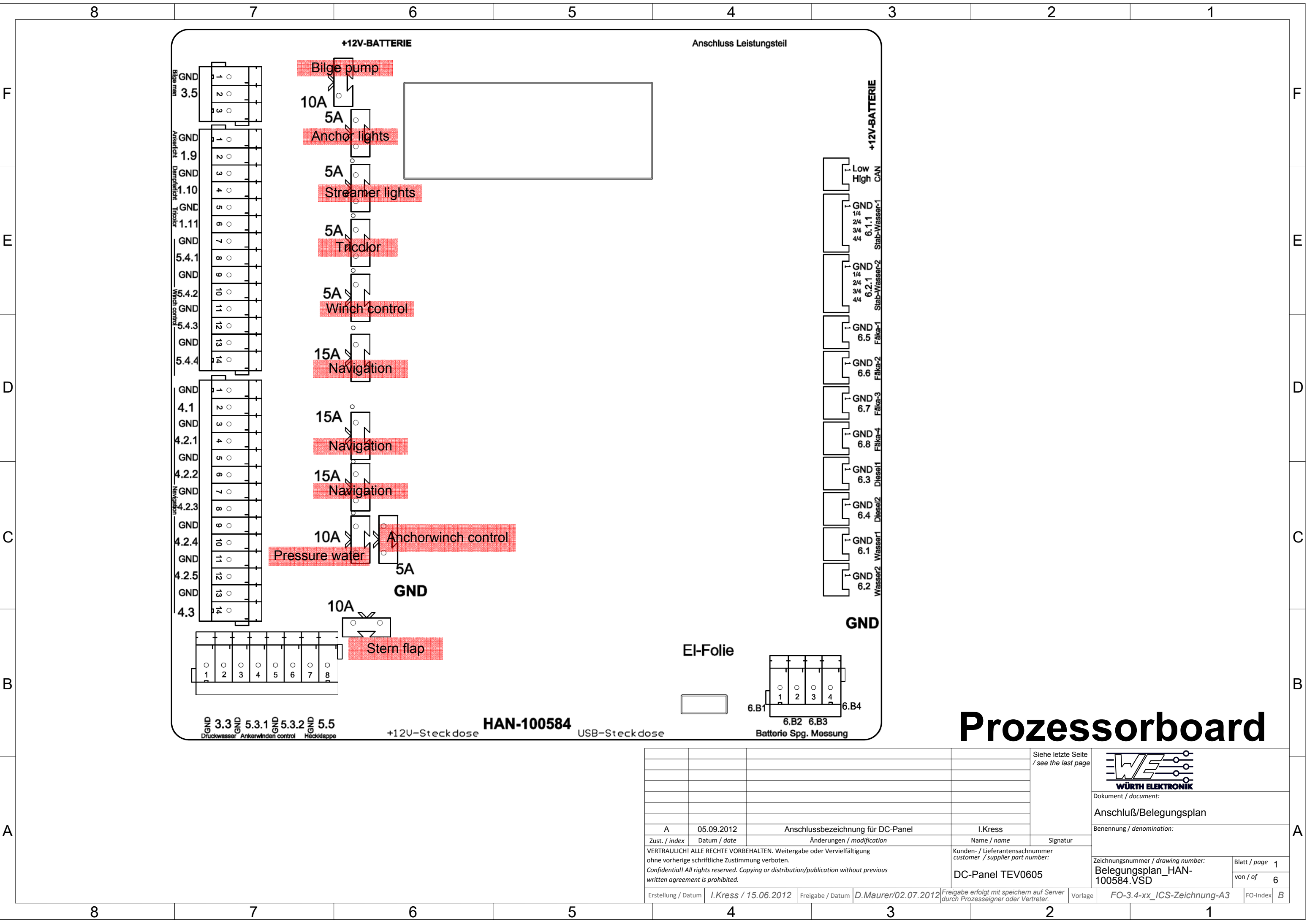


In this state the cursor key  or  cannot change to a different menu. Only the following is possible:

- Short confirmation of the enter key to jump to the min / max setting menu.
- If the enter key is pressed for a duration of at least 3 seconds, the main menu is accessed. If several different sensor errors occur at the same time, these will also be automatically confirmed. Inaccurate values will then be indicated by a blinking „ ! “.

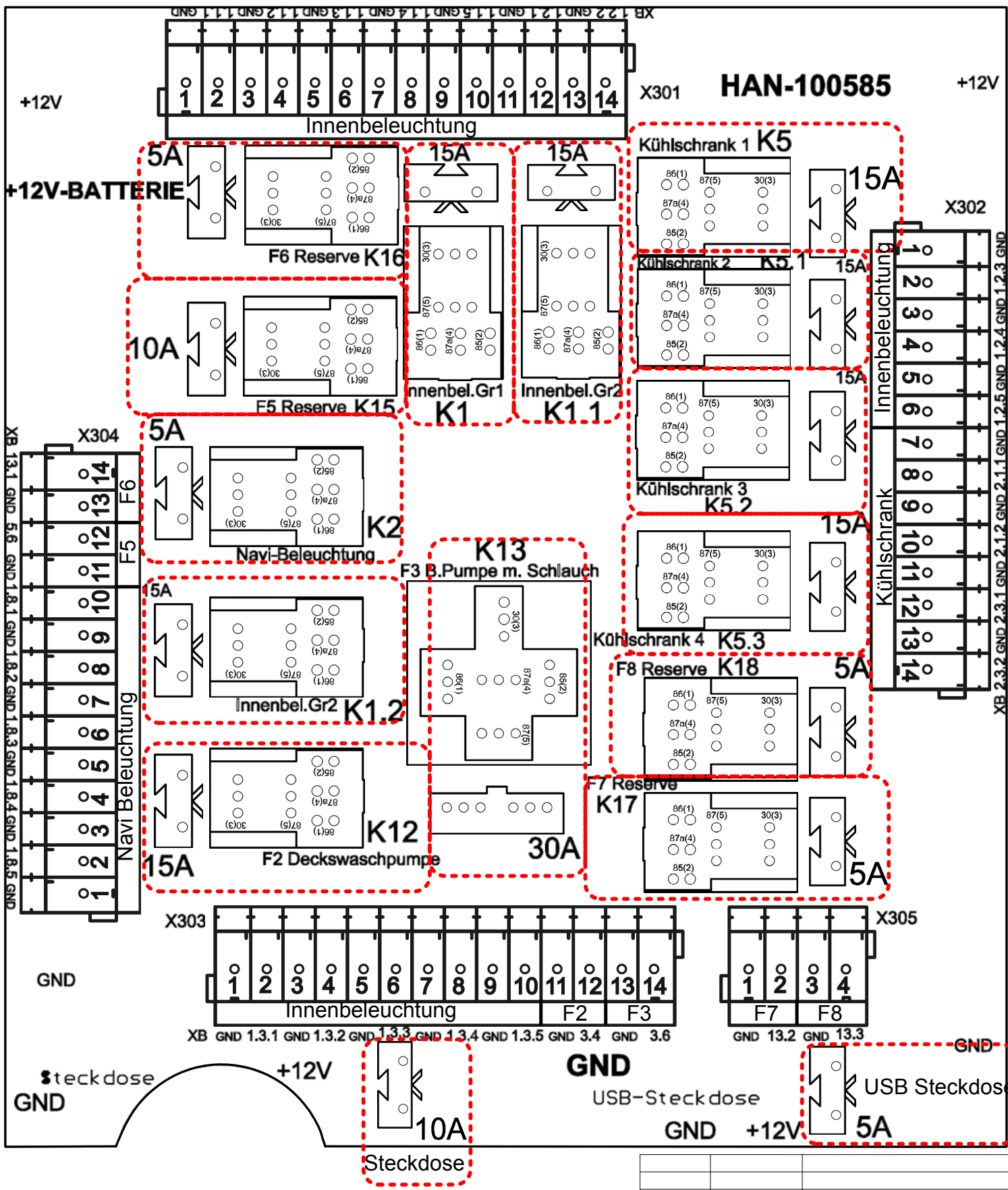
6.3 *Attachement A1*

Pin assignment and circuit diagram



Prozessorboard

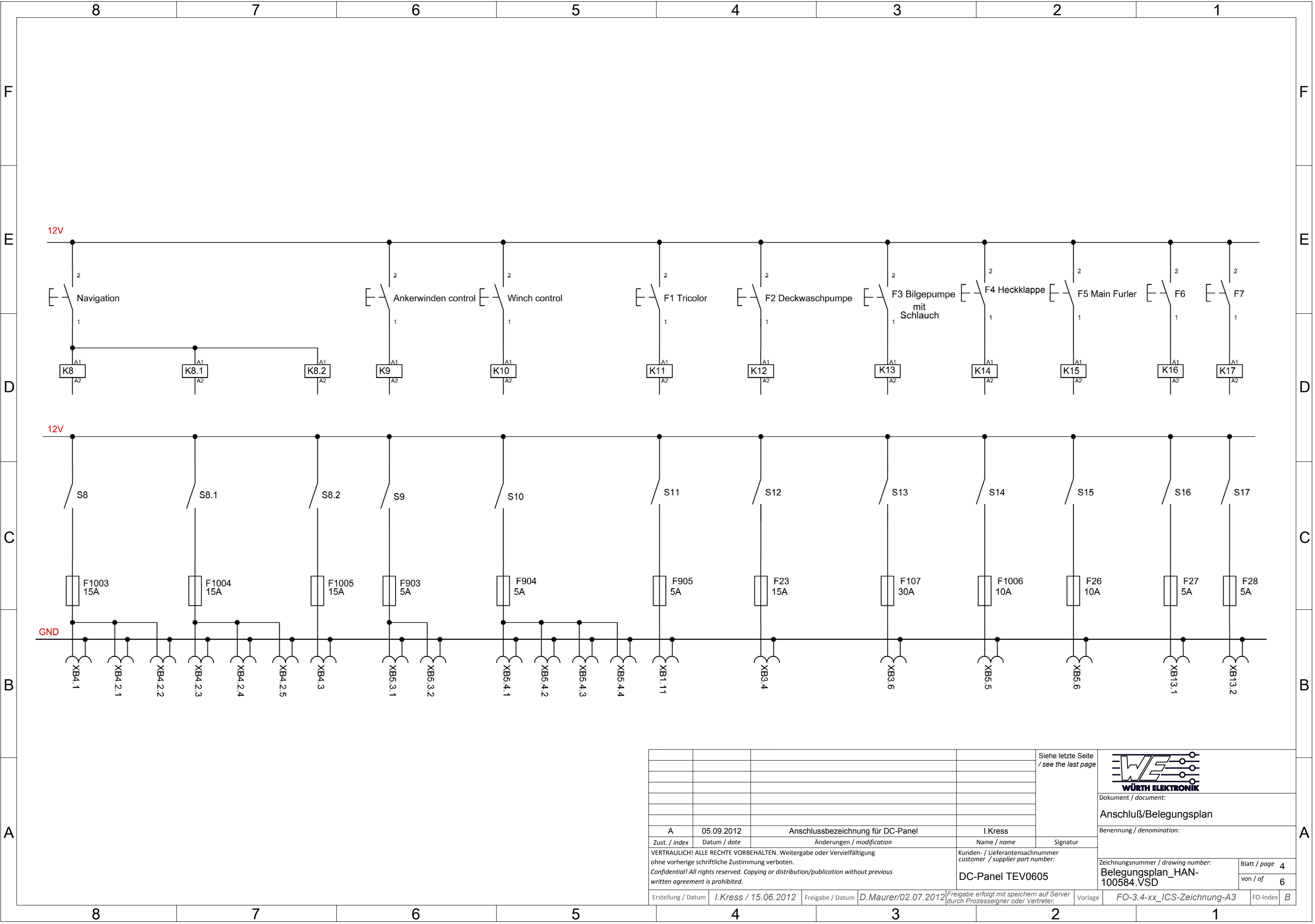
Siehe letzte Seite / see the last page					
				Dokument / document:	
				Anschluß/Belegungsplan	
				Benennung / denomination:	
				Zeichnungsnummer / drawing number:	
				Belegungsplan_HAN-100584.VSD	
				Blatt / page 1 von / of 6	
Kunden- / Lieferantensachnummer customer / supplier part number:		Freigabe erfolgt mit speichern auf Server durch Prozesseigner oder Vertreter.		Vorlage	
DC-Panel TEV0605		Freigabe / Datum		FO-3.4-xx_ICs-Zeichnung-A3	
Erstellung / Datum		I.Kress / 15.06.2012		FO-Index	
A		05.09.2012		B	
Zust. / index		Datum / date			
Änderungen / modification		Name / name		Signatur	
I.Kress					
VERTRAULICH! ALLE RECHTE VORBEHALTEN. Weitergabe oder Vervielfältigung ohne vorherige schriftliche Zustimmung verboten. Confidential! All rights reserved. Copying or distribution/publication without previous written agreement is prohibited.		D.Maurer/02.07.2012			



Leistungsboard

Siehe letzte Seite / see the last page					
				Dokument / document:	
				Anschluß/Belegungsplan	
				Benennung / denomination:	
				Zeichnungsnummer / drawing number:	
				Belegungsplan_HAN-100584.VSD	
				Blatt / page 2	
				von / of 6	
				Freigabe erfolgt mit speichern auf Server durch Prozesseigner oder Vertreter.	
				Vorlage	
				FO-3.4-xx_ICS-Zeichnung-A3	
				FO-Index	
				B	

A	05.09.2012	Anschlussbezeichnung für DC-Panel			I.Kress
Zust. / index	Datum / date	Änderungen / modification			Name / name
VERTRAULICH! ALLE RECHTE VORBEHALTEN. Weitergabe oder Vervielfältigung ohne vorherige schriftliche Zustimmung verboten.					Kunden- / Lieferantensachnummer customer / supplier part number
Confidential! All rights reserved. Copying or distribution/publication without previous written agreement is prohibited.					
					DC-Panel TEV0605
Erstellung / Datum	I.Kress / 15.06.2012		Freigabe / Datum	D.Maurer/02.07.2012	Freigabe erfolgt mit speicherndurch Prozesseigner oder Ver



					Siehe letzte Seite / see the last page		Dokument / document: Anschluß/Belegungsplan Benennung / denomination: Zeichnungsnummer / drawing number: Belegungsplan_HAN-100584.VSD Blatt / page 4 von / of 6				
A	05.09.2012	Anschlussbezeichnung für DC-Panel			I.Kress						
Zust. / index	Datum / date	Änderungen / modification			Name / name	Signatur					
VERTRAULICH! ALLE RECHTE VORBEHALTEN. Weitergabe oder Vervielfältigung ohne vorherige schriftliche Zustimmung verboten. Confidential! All rights reserved. Copying or distribution/publication without previous written agreement is prohibited.					Kunden- / Lieferantensachnummer customer / supplier part number: DC-Panel TEV0605						
Erstellung / Datum	I.Kress / 15.06.2012		Freigabe / Datum	D.Maurer/02.07.2012		Freigabe erfolgt mit speichern auf Server durch Prozesseigner oder Vertreter.	Vorlage	FO-3.4-xx_ICS-Zeichnung-A3		FO-Index	B



