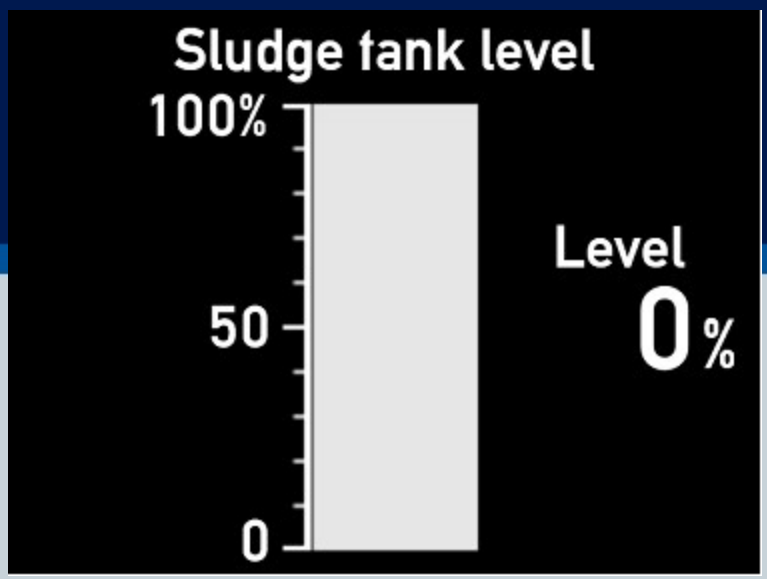
XDi 96 Dual

Tank level indicators



Library owner: DEIF STANDARD LIB

Library number: 53

Library version: 2002

Table of Contents

Library description :
This XDi dual leibrary contains a collection of tank level indicators with up to 2 input values

Library status symbols :	
	Released & Locked
	Approved
	Pending
	Draft
	Not approved

Timestamp 08-02-2023 15:34:54

Library Specification

Library owner no. :	000001
Library owner name :	DEIF STANDARD LIB
Product type :	XDi 96
Performance class :	Dual
Library number :	53
Library name :	Tank level indicators
Library orientation :	Landscape
Library status :	Released & Locked
Library version :	2002
Last changed :	08-02-2023 15:34:53

Library default settings :

180 display rotation :	False
CAN NodeID :	30

Library notes :

08-02-2023/MAP, Ver. 2002: XDi main software update to Qt v.3.06.1 and Capp software is updated to v.3.06.0, this version supports presentation of UK MER flag mark in surveyor menu in addition to the wheel marking, no other changes are made.

24-01-2023/JOL, Ver.2001: In VS help text for AX1 4-20mA the following is added: "AX1 inp. lost below 3.5mA".

15-03-2022/JOL, Ver.2000: First release of this library including PP01 to PP06 and VI001 and VI002

Product profiles (PP)

Default settings of product and system related parameters, as dimmer and CANbus settings are stored in a product profile.

Timestamp 08-02-2023 15:34:54

PP No.	PP Name	Description	Status	Notes
1	PP01 XDi-net	**Front dimmer/ XDi-net** Dim via front buttons (Requires 4 button kit) or via XDi-net. XDi-net active **Default settings:** Dimmer group 1 Dimming via XDi-net (CAN) Auto Day/Night Shift at 70% Monitoring supply volt. 1	🔒	CANbus and Dimmer settings can be changed from XDi menu With the 4-button front kit mounted (accessory) dimmer up/down can be controlled from front button 2 and 3. You can change dimmer group no. if you get dimmer setting from another XDi via CAN.
2	PP02 Analogue	**A Dimmer** Required: AX1 in Slot 1 Dim potmeter (+term 3 -term 1, wiper term 2) Can be reconfigured to voltage input **Default settings:** Dimmer group 1 Analogue Potmeter 0 to Vref Auto Day/Night Shift at 70% Shared on XDi-net Monitoring supply volt.1	🔒	An external ref. voltage >7.5V can be connected to Vref out overwriting the internal Vref. max. 30V DC. From the user menu, you can alternatively reconfigure the analogue dimmer input to a normal voltage input. You can also change dimmer group if you use this XDi to control dimming of other XDi units via CAN.
3	PP03 CAN	**CAN Dimmer** CANopen TPDO dimming Front buttons can be used for dimmer. **Default settings:** Dimmer group 1 Auto Day/Night Shift at 70% Monitoring supply volt. 1	🔒	DEIF default TPDO's are predefined and used in all standard libraries. The default TPDO's for dimmer group control can be changed to any TPDO or RPDO via user menu.
4	PP04 Digital	**Digital Dimmer** Required: DX1 in Slot 1 Digital input 1 up (+term 11,- term 10) Digital input 2 down (+term 8,- term 7) Simultaneous activation of IN1 and IN2 for Day/Night Shift **Default settings:** Dimmer group 1 Shared on XDi-net Monitoring supply volt. 1	🔒	Digital input configuration can be changed from user menu.

PP No.	PP Name	Description	Status	Notes
5	PP05 Lo Analog	**Analogue Dimmer Local** Required: AX1 in Slot 1 Dim potmeter(+term 3 - term 1, wiper term 2) Can be reconfigured to voltage input **Default settings:** Dimmer group: Local Analogue Potmeter 0 to Vref (max. 30V) Auto Day/Night Shift at 70% (Local-Not shared XDi-net) Monitoring supply volt. 1		The dimmer group is ”Local” and the dimmer input will only affect this unit, dimmer level will not be shared on XDi-net.
6	PP06 ECR Fixed	**ECR Fixed Dimmer** Dimmer adjust via front buttons or via user menu. **Default settings:** Dimmer group Local Fixed dimmer level 90% Higher constant backlight level reduce lifetime (Local-Not shared XDi-net) Auto Day/Night Shift at 20% Monitoring supply volt. 1		Default fixed dimmer level is reduced to extend backlight life. Dimmer level and Day/Night colour can be changed from user menu.

Virtual Indicators (VI)

The VI contains the graphical layout of and indicator and defines all data types that are presented on the indicator.

Each VI has at least one VI-setup profile (VS) that defines the input types and default parameter settings.

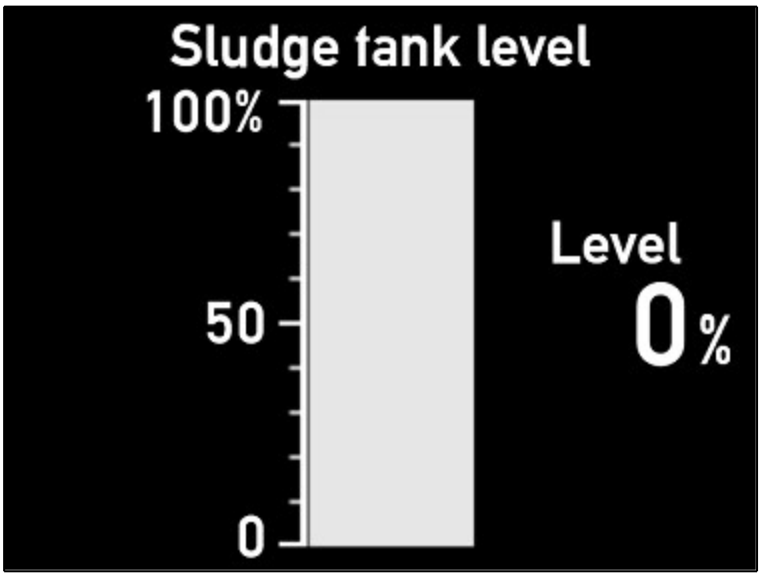
Timestamp **08-02-2023 15:34:54**

VI No.	Name	VI-setup profiles (VS)	Approvals	Status
001	Tank lev.	6		
002	Tank lev.	6		

 Approvals only apply for XDi 192.

Timestamp 08-02-2023 15:34:54

VI 001 **Tank lev.**



Description : **Tank Level**

Basic Tank %-level indicator

Bar: 0-100% bar and
Digital: 0-200%
With selectable headline
and label

Status :

VI Notes : If warning mark indication is needed please use VI002

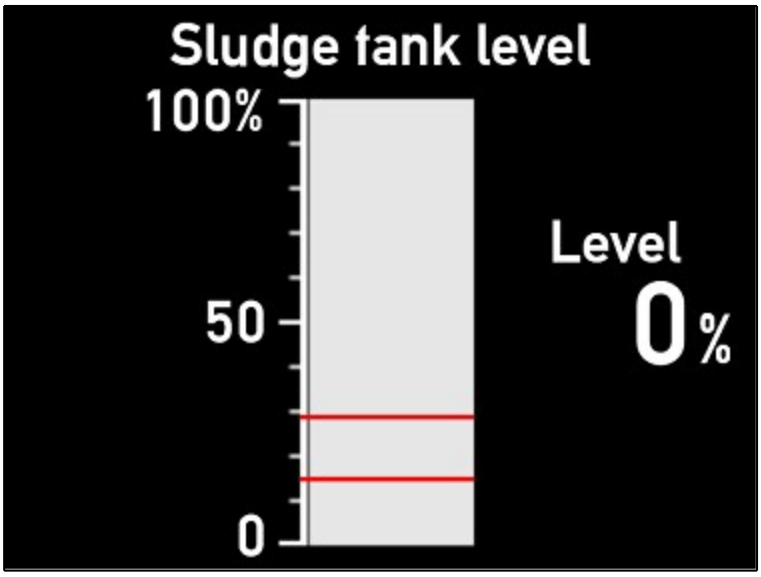
VI-setup profiles (VS) for VI001

VS No.	Name	Description	Status	Notes
1	VS01 XDi-net	**XDi-net input** **Data instance 1** XDi-net input Data 1 0x3721:02 16 bit signed Resolution = 1 100 = 100%		This profile is used if data 1 is shared from another XDi using VS03 (Analogue input, data instance 1)

VI-setup profiles (VS) for VI001

VS No.	Name	Description	Status	Notes
2	VS02 CAN TPDO	**CAN TPDO input** **Data instance 1** Default TPDO COBID 0x185 Byte 0 and 1 16 bit signed Resolution = 1 100 = 100%	🔒	
3	VS03 Analogue	**Analogue input** **Data instance 1** 4-20mA input S1in1, (+term.9, -term.8) 4mA= 0% 20mA=100% Data resolution = 1 100 = 100% AX1 inp. lost below 3.5mA Shared on XDi-net Data 1, 0x3721:02	🔒	This XDi will share analogue data with one or more XDi units using VS01 (XDi-net Data inst. 1) If you change input type or adjust the input level, make sure to adjust the inpurt error values (min and max.) !
4	VS04 XDi-net	**XDi-net input** **Data instance 2** XDi-net input Data 2 0x3722:02 16 bit signed Resolution = 1 100 = 100%	🔒	This profile is sued if data 2 is shared from another XDi using VS06 (Analogue input, data instance 2)
5	VS05 CAN TPDO	**CAN TPDO input** **Data instance 2** Default TPDO COBID 0x186 Byte 0 and 1 16 bit signed Resolution = 1 100 = 100%	🔒	
6	VS06 Analogue	**Analogue input** **Data instance 2** 4-20mA input S1in1, (+term.9, -term.8) 4mA= 0% 20mA=100% Data resolution = 1 100 = 100% AX1 inp. lost below 3.5mA Shared on XDi-net Data 2, 0x3722:02	🔒	This XDi will share analogue data with one or more XDi units using VS04 (XDi-net Data inst. 2) If you change input type or adjust the input level, make sure to adjust the inpurt error values (min and max.) !

VI 002 **Tank lev.**



Description : **Tank Level**

Advanced Tank %-level with Warning marks

Bar: 0-100% bar and
Digital: 0-200%
With selectable headline and label

Status :

VI Notes : This VI has warning mark indications and is by default setup to shift bargraph and numeric readout colour when data is above 90% (yellow) or below 10% (red).
The limits are marked with red lines. One or both waring limits can be changed from user menu.
To disable one or both warning bands just set max limit = min limit for the warning band in question.
Colours of numeric readout can also be changed between Normal (Black/White), Caution (yellow) and Warning (red).
If you don't want digital readout to change colour select Normal.

VI-setup profiles (VS) for VI002

VS No.	Name	Description	Status	Notes
1	VS01 XDi-net	**XDi-net input Data instance 1** XDi-net input Data 1 0x3721:02 16 bit signed Resolution = 1 100 = 100%		This profile is used if data 1 is shared from another XDi using VS03 (Analogue input, data instance 1)

VI-setup profiles (VS) for VI002

VS No.	Name	Description	Status	Notes
2	VS02 CAN TPDO	**CAN TPDO input** **Data instance 1** Default TPDO COBID 0x185 Byte 0 and 1 16 bit signed Resolution = 1 100 = 100%	🔒	
3	VS03 Analogue	**Analogue input** **Data instance 1** 4-20mA input S1in1, (+term.9, -term.8) 4mA= 0% 20mA=100% Data resolution = 1 100 = 100% AX1 inp. lost below 3.5mA Shared on XDi-net Data 1, 0x3721:02	🔒	This XDi will share analogue data with one or more XDi units using VS01 (XDi-net Data 1) If you change input type or adjust the input level, make sure to adjust the inpurt error values (min and max.) !
4	VS04 XDi-net	**XDi-net input** **Data instance 2** XDi-net input Data 2 0x3722:02 16 bit signed Resolution = 1 100 = 100%	🔒	This profile is used if data 2 is shared from another XDi using VS06 (Analogue input, data instance 2)
5	VS05 CAN TPDO	**CAN TPDO input** **Data instance 2** Default TPDO COBID 0x186 Byte 0 and 1 16 bit signed Resolution = 1 100 = 100%	🔒	
6	VS06 Analogue	**Analogue input** **Data instance 2** 4-20mA input S1in1, (+term.9, -term.8) 4mA= 0% 20mA=100% Data resolution = 1 100 = 100% AX1 inp. lost below 3.5mA Shared on XDi-net Data 2, 0x3722:02	🔒	This XDi will share analogue data with one or more XDi units using VS04 (XDi-net Data 2) If you change input type or adjust the input level, make sure to adjust the inpurt error values (min and max.) !