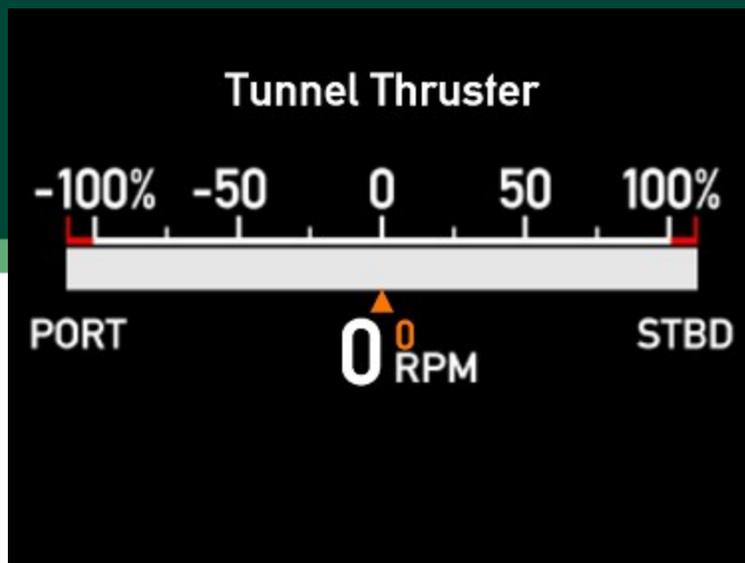




Improve
Tomorrow

XDi 96 Dual

Tunnel Thruster



Library owner: DEIF STANDARD LIB

Library number: 11

Library version: 2009

Table of Contents

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Library description :

This XDi Dual library contains a selection of tunnel thruster indicators, respectively for forward and aft bridge applications.

Each virtual indicators has a selection of input/output setup profiles (VS) covering the most common used combination of XDi-net, CANopen, AX1 analogue and DX1 digital inputs. Some VS profile also supports the NX1 NMEA output extension module.

Default CAN bus setup and dimmer input configurations are available in the selection of product profiles (PP).

Select the VS and PP profile that fits your need for CAN, Analogue or Digital inputs and make the necessary adjustments via the XDi installation menu or user menu.

With this upgrade to software Platform 2 it is possible to use dimmer from front buttons (Front button option is required) and it is also possible to make external pushbutton dimming using the NX1 module.

Analogue input error (input lost/out of range) indication is implemented in all relevant VS profiles.

GENERAL FOR STANDARD DEIF LIBRARIES:

The default CANbus setup and Dimmer configuration are defined in the selected Product Profile (PP). In all PP's CAN1 and CAN2 are default set active for CANopen and XDi-net communication.

The CANbus default setting can be changed from XDi installation menu and Dimmer setup can be changed from XDi user menu.

Default monitoring of supply voltage 1 is active, if redundant supply is used monitoring on supply voltage 2 should be activated.

Library status symbols :

 Released & Locked

 Approved

 Pending

 Draft

 Not approved



Timestamp 12-02-2026 14:51:30

Library Specification

Library owner no. : 000001
Library owner name : DEIF STANDARD LIB
Product type : XDi 96
Performance class : Dual
Library number : 11
Library name : Tunnel Thruster
Library orientation : Landscape
Library status : Released & Locked
Library version : 2009

Last changed : 12-02-2026 14:51:22

Library default settings :

180 display rotation : False
CAN NodeID : 30

Library notes :

12-02-2026/JOL, Ver.2009: Added double Tunnel Thr. indicators VI019 to 22 (Not MED) all with 3 VS profiles.

 16-02-2023/JOL, Ver.2008: In VI013 and 014 profile VS05 is now Obsolete, use VS04 instead. VS06 is updated to fix a potential conflict in the Pitch PDO converter. Changes has no impact on backward compatibility.

 08-02-2023/MAP, Ver. 2007: 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.

 28-07-2022/JOL, Ver. 2006: AX1 analogue 4-20mA input lost is added to all relevant VS profiles. PPs: default backlight level in menu is changed from 50 to 70%

 11-09-2019/JOL, Ver.2005: Library version 4 (Platform 1) is moved to main software Platform 2 . Relevant PP's are updated to support front button dimming. This library version is backward compatible with previous library versions.

Product profiles (PP)



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

Timestamp 12-02-2026 14:51:30

PP No.	PP Name	Description	Status	Notes
1	PP01 XDi-net	<p>Front/XDi-net Dimmer XDi-net active Dimming from front req. Front button option.</p> <p>Default settings: Dimmer group 1 Dimming via XDi-net Auto Day/Night Shift at 70% Monitoring supply voltage 1</p>		<p>CANbus and Dimmer settings can be changed from XDi menu. External pushbutton dimming is possible using NX1 module. Must be setup in XDi installation menu: NMEA setup/NX button setup..</p>
2	PP02 Analogue	<p>Analogue Dimmer Required: AX1 in Slot 1 Dimmer potmeter(+ term 3 -term 1, wiper term 2) Can be reconfigured to voltage input</p> <p>Default settings: Dimmer group 1 Analogue Potmeter 0 to Vref (max. 30V) Auto Day/Night Shift at 70% Shared on XDi-net Monitoring supply voltage 1</p>		<p>An external ref. voltage >7.5V can be connected to Vref out overwriting the internal Vref. From the user menu, you can alternatively reconfigure the analogue dimmer input to a normal voltage input.</p>
3	PP03 CAN	<p>CAN Dimmer</p> <p>CANopen TPDO dimming</p> <p>Default settings: Dimmer group 1 Auto Day/Night Shift at 70% Monitoring supply voltage 1</p>		<p>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.</p>
4	PP04 Digital	<p>Digital Dimmer Required: DX1 in Slot 1</p> <p>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</p> <p>Default settings: Dimmer group 1 Shared on XDi-net Monitoring supply voltage 1</p>		<p>Digital input configuration can be changed from menu.</p>

PP No.	PP Name	Description	Status	Notes
5	PP05 Lo Analog	<p>Analogue Dimmer Local Required: AX1 in Slot 1 Dimmer 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 voltage 1</p>		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	<p>ECR Fixed Dimmer Dimming setting via button 2 and 3. Front button option can be used. Default settings: Dimmer group Local Dimmer level 80% to extend backlight life (Local - Not shared XDi-net) Auto Day/Night Shift at 20% Monitoring supply voltage 1</p>		Default fixed dimmer level is reduced to 80% 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 12-02-2026 14:51:30

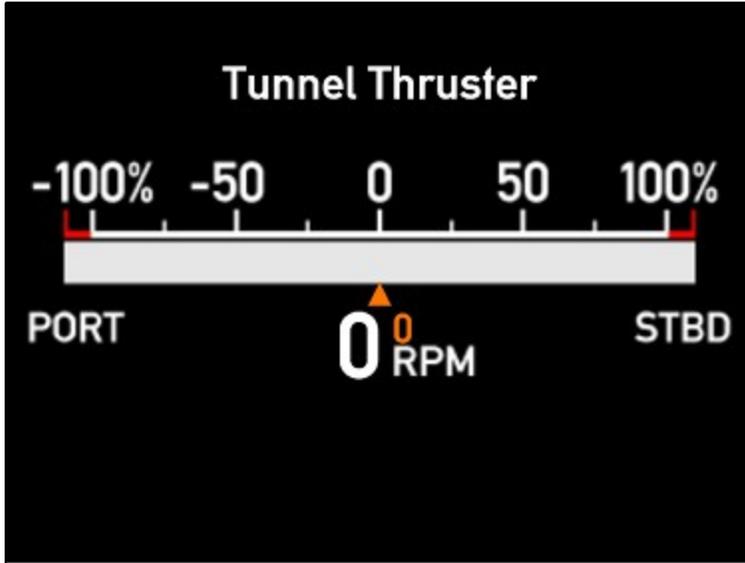
VI No.	Name	VI-setup profiles (VS)	Approvals	Status
001	FWD RPM	5		
002	AFT RPM	5		
003	FWD PITCH	4		
004	AFT PITCH	4		
005	FWD THR	3		
006	AFT THR	3		
007	Reserved	1		
008	Reserved	1		
009	Reserved	1		
010	Reserved	1		
011	FWD RPM	4		
012	AFT RPM	4		
013	FWD PITCH	6		
014	AFT PITCH	6		
015	FWD THR	3		
016	AFT THR	3		
017	FWD LOAD	3		
018	AFT LOAD	3		
019	Fw 2xRPM	3		

VI No.	Name	VI-setup profiles (VS)	Approvals	Status
020	Aft 2xRPM	3	 	
021	Fw 2xUni	3	 	
022	Aft 2xUni	3	 	

 Approvals only apply for XDi 192.

VI 001

FWD RPM



Description : TT FWD RPM

Tunnel Thruster RPM $\pm 110\%$
 Actual RPM range ± 3276
 with digital readout

Status : All with set point



VI Notes : RPM% scale can be configured from the XDi menu to match different input values. This makes this indicator quite universal. Setpoint is also presented RPM/RPM%, but this function can be individually disabled. The bar graph colour is green to starboard and red to portside.

VI-setup profiles (VS) for VI001

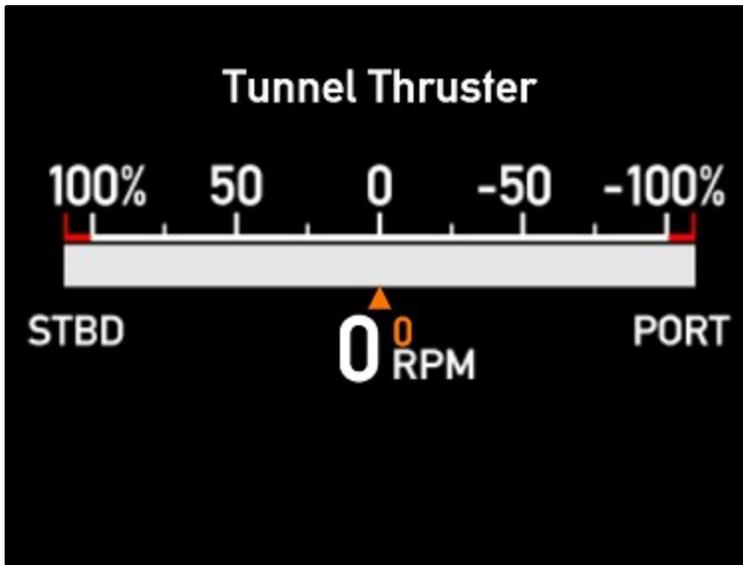
VS No.	Name	Description	Status	Notes
1	VS01 XDi-net	<p>Input XDi-net</p> <p>Azimuth: XDi-net</p> <p>RPM/RPM%: XDi-net</p>		<p>The XDi-net profile is used when the indicator is a repeater, receiving data from other XDi units or from a CAN controller providing data in XDi-net format. Please note that TPDO's or RPDO's are not retransmitted in XDi-net format, but are used directly by all indicators (e.g. Angle transmitted CAN data), zero or scaling adjustments can be synchronized via XDi-net. Use VS02 if a combination of XDi-net and TPDO inputs (e.g. CAN encoder) are used. Support for NX1 NMEA out: Slot 1</p>
2	VS02 TPDO	<p>Input TPDO or XDi-net</p> <p>Azimuth: TPDO</p> <p>RPM/RPM%: TPDO</p>		<p>TPDO COBID can be changed to any valid TPDO or RPDO COBID via the XDi installation menu. TPDO input can be scaled from menu. This profile can also be used for XDi-net input, if a combination of TPDO and XDi-net is used. TPDO input can be disabled to run pure XDi-net. Support for NX1 NMEA out: Slot 1</p>
3	VS03 Analog	<p>Analogue</p> <p>Required: AX1 in Slot 1</p> <p>RPM/RPM%: AX1 S1i1 4-20mA (+term9, -term8)</p> <p>RPM/RPM% set: AX1 S1i2 4-20mA (+term5, -term4)</p> <p>AX1 input lost below 3.5mA</p>		<p>Analogue input type and scaling can be changes from XDi installation menu. If you change input type or input range remember to change input error value max and min. (Default set to 3500µA and 21000µA)</p>
4	VS04 Pickup	<p>Analog Pitch</p> <p>Required: DX1 in Slot 1</p> <p>RPM/RPM%: DX1 S1i1: (+term11, -term10) S1i2 (+term9, -term8)</p> <p>RPM/RPM% set: TPDO/XDi</p>		<p>Digital RPM input scaling can be changes from XDi installation menu.</p>

VI-setup profiles (VS) for VI001

VS No.	Name	Description	Status	Notes
5	VS05 Analog Set	use with VS4 Required: AX1 in Slot 1 RPM/RPM%: TPDO/XDi RPM/RPM% set: AX1 S1i1 4-20mA (+term9, -term8) AX1 input lost below 3.5mA		TPDO COBID and input data scaling can be changed from the XDi installation menu. The TPDO input can be disabled to use XDi-net instead. Analogue input type and scaling can be changes from XDi installation menu. If you change input type or input range remember to change input error value max and min. (Default set to 3500µA and 21000µA)

VI 002

AFT RPM



Description : TT AFT RPM

Tunnel Thruster RPM $\pm 110\%$
Actual RPM range ± 3276
with digital readout

All with set point

Status :



VI Notes :

RPM% scale can be configured from the XDi menu to match different input values.
This makes this indicator quite universal.
Setpoint is also presented RPM/RPM%, but this function can be individually disabled.
The bargraph colour is green to starboard and red to portside.

VI-setup profiles (VS) for VI002

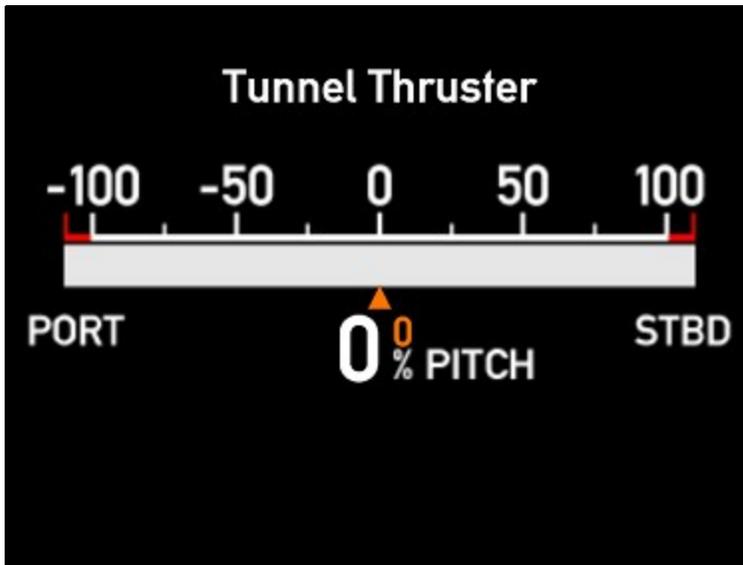
VS No.	Name	Description	Status	Notes
1	VS01 XDi-net	Input XDi-net Azimuth: XDi-net RPM/RPM%: XDi-net		See similar VS profile for VI001
2	VS02 TPDO	Input TPDO or XDi-net Azimuth: TPDO RPM/RPM%: TPDO		See similar VS profile for VI001

VI-setup profiles (VS) for VI002

VS No.	Name	Description	Status	Notes
3	VS03 Analog	Analogue Required: AX1 in Slot 1 RPM/RPM%:AX1 S1i1 4-20mA (+term9, -term8) RPM/RPM% set: AX1 S1i2 4-20mA (+term5, -term4) AX1 input lost below 3.5mA		See similar VS profile for VI001
4	VS04 Pickup	Analog Pitch Required: DX1 in Slot 1 RPM/RPM%: DX1 S1i1: (+term11, -term10) S1i2 (+term9, -term8) RPM/RPM% set: TPDO/XDi		See similar VS profile for VI001
5	VS05 Analog Set	use with VS4 Required: AX1 in Slot 1 RPM/RPM%: TPDO/XDi RPM/RPM% set: AX1 S1i1 4-20mA (+term9, -term8) AX1 input lost below 3.5mA		See similar VS profile for VI001

VI 003

FWD PITCH



Description : TT FWD PITCH

Tunnel Thruster Pitch $\pm 110\%$
 Actual Pitch range $\pm 200\%$
 with digital readout

All with set point

Status :



VI Notes :

Setpoint is also presented, but this function can be disabled.
 The bargraph colour is green to starboard and red to portside.

VI-setup profiles (VS) for VI003

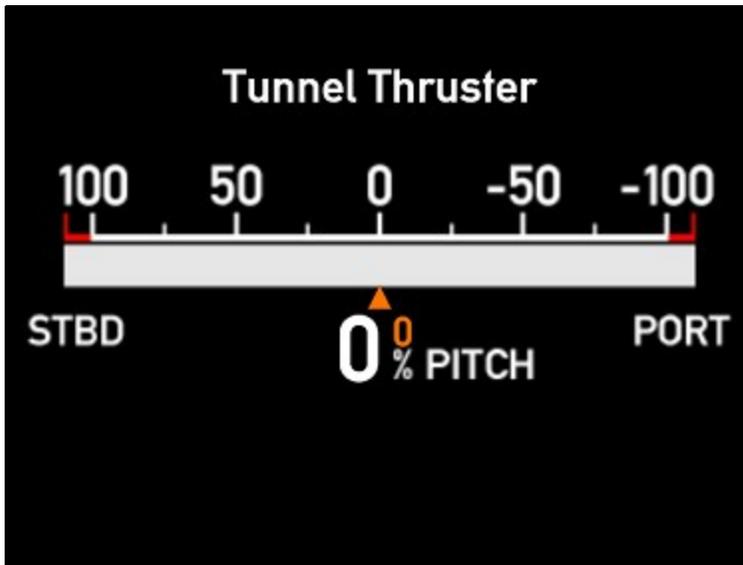
VS No.	Name	Description	Status	Notes
1	VS01 XDi-net	Input XDi-net Pitch%: XDi-net Pitch% set: XDi-net		See similar VS profile for VI001
2	VS02 TPDO	Input TPDO or XDi-net Pitch%: TPDO/(RTC) Pitch% set: TPDO/(RTC)		See similar VS profile for VI001

VI-setup profiles (VS) for VI003

VS No.	Name	Description	Status	Notes
3	VS03 Analog	Analogue Required: AX1 in Slot 1 Pitch%: AX1 S1i1 4-20mA (+term9, -term8) Pitch% set: AX1 S1i2 4-20mA (+term5, -term4) AX1 input lost below 3.5mA		See similar VS profile for VI001
4	VS04 RTC Pitch	Analog set Required: AX1 in Slot 1 Pitch%: TPDO/(RTC)/XDi Pitch%/Pitch% set: AX1 S1i1 4-20mA (+term9, -term8) AX1 input lost below 3.5mA		See similar VS profile for VI001 RTC300 or RTC600 can be used as pitch sensor

VI 004

AFT PITCH



Description : TT AFT PITCH

Tunnel Thruster Pitch $\pm 110\%$
 Actual Pitch range $\pm 200\%$
 with digital readout

All with set point

Status :



VI Notes :

Setpoint is also presented, but this function can be disabled.
 The bargraph colour is green to starboard and red to portside.

VI-setup profiles (VS) for VI004

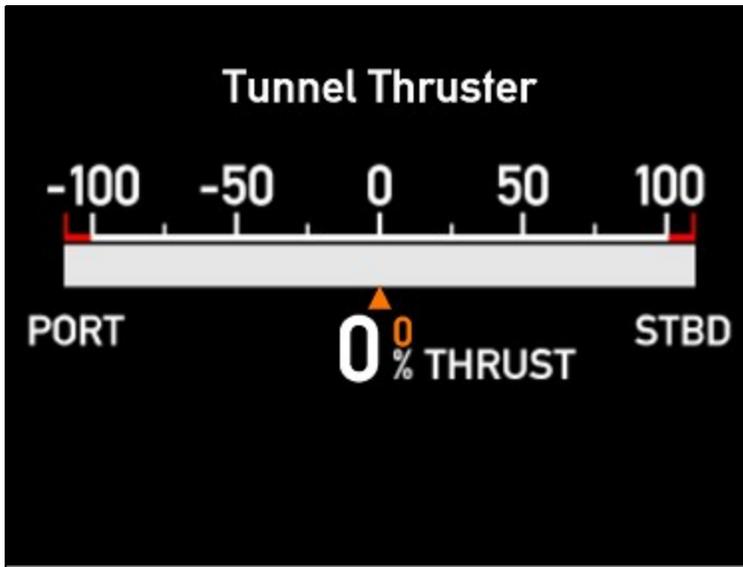
VS No.	Name	Description	Status	Notes
1	VS01 XDi-net	Input XDi-net Pitch%: XDi-net Pitch% set: XDi-net		See similar VS profile for VI001
2	VS02 TPDO	Input TPDO or XDi-net Pitch%: TPDO/(RTC) Pitch% set: TPDO/(RTC)		See similar VS profile for VI001

VI-setup profiles (VS) for VI004

VS No.	Name	Description	Status	Notes
3	VS03 Analog	Analogue Required: AX1 in Slot 1 Pitch%: AX1 S1i1 4-20mA (+term9, -term8) Pitch% set: AX1 S1i2 4-20mA (+term5, -term4) AX1 input lost below 3.5mA		See similar VS profile for VI001
4	VS04 RTC Pitch	Analog set Required: AX1 in Slot 1 Pitch%: TPDO/(RTC)/XDi Pitch%/Pitch% set: AX1 S1i1 4-20mA (+term9, -term8) AX1 input lost below 3.5mA		See similar VS profile for VI001

VI 005

FWD THR



Description : TT FWD THR

Tunnel Thruster $\pm 110\%$
Actual Thrust range $\pm 200\%$
with digital readout

All with set point

Status :



VI Notes :

Setpoint is also presented, but this function can be disabled.
The bargraph colour is green to starboard and red to portside.
%Thrust indication is not part of MED!

VI-setup profiles (VS) for VI005

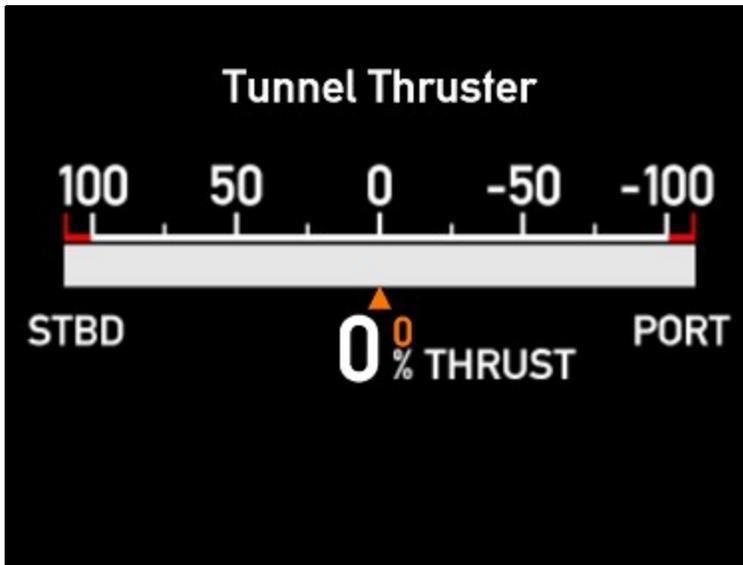
VS No.	Name	Description	Status	Notes
1	VS01 XDi-net	Input XDi-net Thrust%: XDi-net Thrust% set: XDi-net		See similar VS profile for VI001
2	VS02 TPDO	Input TPDO or XDi-net Thrust%: TPDO Thrust% set: TPDO		See similar VS profile for VI001

VI-setup profiles (VS) for VI005

VS No.	Name	Description	Status	Notes
3	VS03 Analog	Analogue Required: AX1 in Slot 1 Thrust%: AX1 S1i1 4-20mA (+term9, -term8) Thrust% set: AX1 S1i2 4-20mA (+term5, -term4) AX1 input lost below 3.5mA		See similar VS profile for VI001

VI 006

AFT THR



Description : TT AFT THR

Tunnel Thruster $\pm 110\%$
Actual Thrust range $\pm 200\%$
with digital readout

All with set point

Status :



VI Notes :

Setpoint is also presented, but this function can be disabled.
The bargraph colour is green to starboard and red to portside.
Thrust indication is not part of MED!

VI-setup profiles (VS) for VI006

VS No.	Name	Description	Status	Notes
1	VS01 XDi-net	Input XDi-net Thrust%: XDi-net Thrust% set: XDi-net		See similar VS profile for VI001
2	VS02 TPDO	Input TPDO or XDi-net Thrust%: TPDO Thrust% set: TPDO		See similar VS profile for VI001

VI-setup profiles (VS) for VI006

VS No.	Name	Description	Status	Notes
3	VS03 Analog	Analogue Required: AX1 in Slot 1 Thrust%: AX1 S1i1 4-20mA (+term9, -term8) Thrust% set: AX1 S1i2 4-20mA (+term5, -term4) AX1 input lost below 3.5mA		See similar VS profile for VI001

VI 007

Reserved



Description : Reserved

Reserved for future use

Status : 

VI Notes :

VI-setup profiles (VS) for VI007

VS No.	Name	Description	Status	Notes
1	VS01	Setup Add description Add description.		

VI 008

Reserved



Description : Reserved

Reserved for future use

Status : 

VI Notes :

VI-setup profiles (VS) for VI008

VS No.	Name	Description	Status	Notes
1	VS01	Setup Add description Add description.		

VI 009

Reserved



Description : Reserved

Reserved for future use

Status : 

VI Notes :

VI-setup profiles (VS) for VI009

VS No.	Name	Description	Status	Notes
1	VS01	Setup Add description Add description.		

VI 010

Reserved



Description : Reserved

Reserved for future use

Status : 

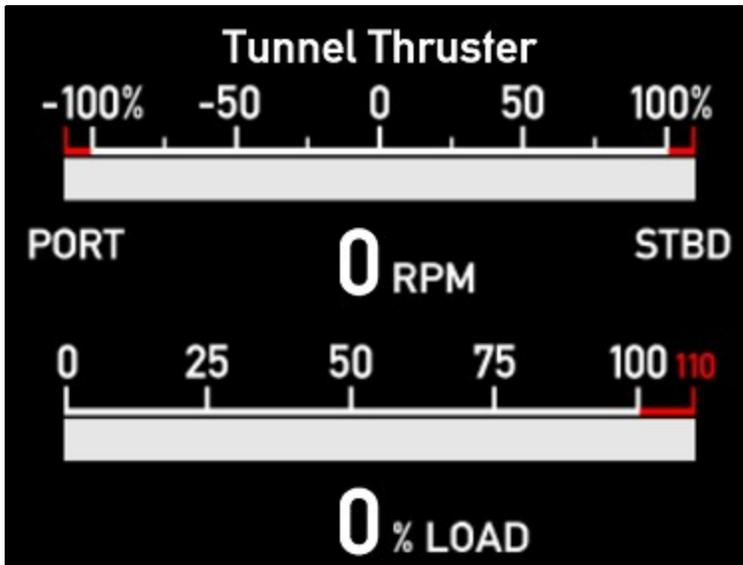
VI Notes :

VI-setup profiles (VS) for VI010

VS No.	Name	Description	Status	Notes
1	VS01	Setup Add description Add description.		

VI 011

FWD RPM



Description : TT FWD RPM

Thruster RPM $\pm 110\%$
 Actual RPM range ± 3276
 Thruster Load 0...110%
 Actual Load $\pm 200\%$

Status :



VI Notes :

RPM% scale can be configured from the XDi menu to match different input values.
 This makes this indicator quit universal.
 This indicator is available with setpoint in the multi library.
 The bar graph colour is green to starboard and red to portside.

VI-setup profiles (VS) for VI011

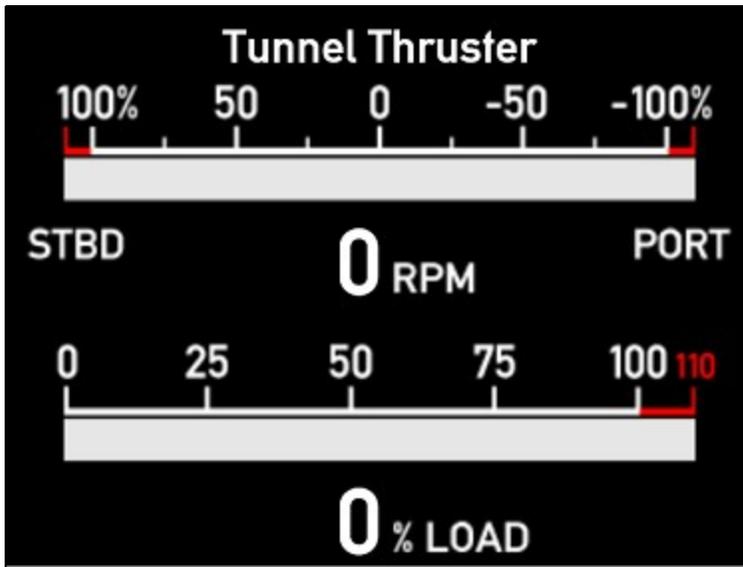
VS No.	Name	Description	Status	Notes
1	VS01 XDi-net	Input XDi-net RPM/RPM%: XDi-net Load%: XDi-net		See similar VS profile for VI001
2	VS02 TPDO	Input TPDO or XDi-net RPM/RPM%: TPDO Load%: TPDO		See similar VS profile for VI001

VI-setup profiles (VS) for VI011

VS No.	Name	Description	Status	Notes
3	VS03 Analog	Analogue Required: AX1 in Slot 1 RPM/RPM%: AX1 S1i1 4-20mA (+term9, -term8) Load%: AX1 S1i2 4-20mA (+term5, -term4) AX1 input lost below 3.5mA		See similar VS profile for VI001
4	VS04 DX-RPM	Pickup System Required: DX1 in Slot 1 RPM/RPM%: DX1 S1i1: (+term11, -term10) S1i1: (+term8, -term7) Load%: TPDO/XDi		See similar VS profile for VI001

VI 012

AFT RPM



Description : TT AFT RPM

Thruster RPM $\pm 110\%$
 Actual RPM range ± 3276
 Thruster Load 0...110%
 Actual Load $\pm 200\%$

Status :



VI Notes : RPM% scale can be configured from the XDi menu to match different input values. This makes this indicator quit universal. This indicator is available with setpoint in the multi library. The bar graph colour is green to starboard and red to portside.

VI-setup profiles (VS) for VI012

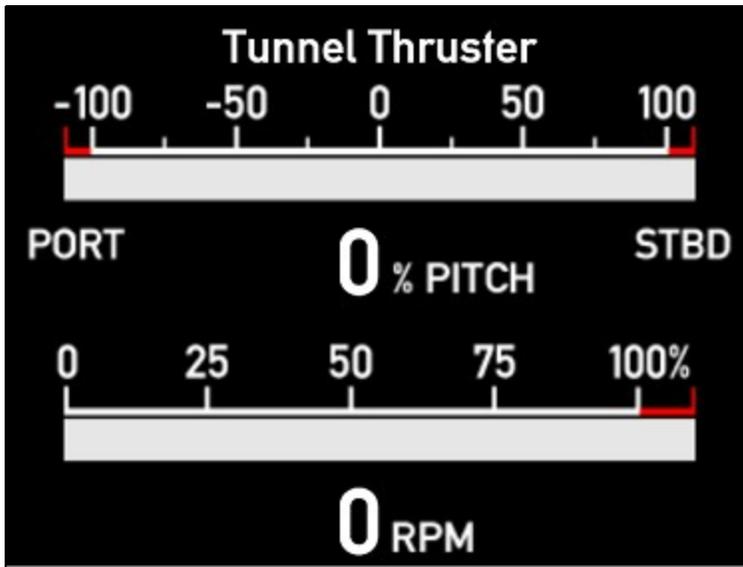
VS No.	Name	Description	Status	Notes
1	VS01 XDi-net	Input XDi-net RPM/RPM%: XDi-net Load%: XDi-net		See similar VS profile for VI001
2	VS02 TPDO	Input TPDO or XDi-net RPM/RPM%: TPDO Load%: TPDO		See similar VS profile for VI001

VI-setup profiles (VS) for VI012

VS No.	Name	Description	Status	Notes
3	VS03 Analog	Analogue Required: AX1 in Slot 1 RPM/RPM%: AX1 S1i1: 4-20mA (+term9, -term8) Load%: AX1 S1i2: 4-20mA (+term5, -term4) AX1 input lost below 3.5mA		See similar VS profile for VI001
4	VS04 DX-RPM	Pickup System Required: DX1 in Slot 1 RPM/RPM%: DX1 S1i1: (+term11, -term10) S1i1: (+term8, -term7) Load%: TPDO/XDi		See similar VS profile for VI001

VI 013

FWD PITCH



Description : TT FWD PITCH

Thruster Pitch $\pm 110\%$
 Actual Pitch range $\pm 200\%$
 Thruster RPM 0...110%
 Actual RPM range ± 3276

Status :

VI Notes : This indicator is available with setpoint in the multi library.
 The %Pitch bar graph colour is green to starboard and red to portside.

VI-setup profiles (VS) for VI013

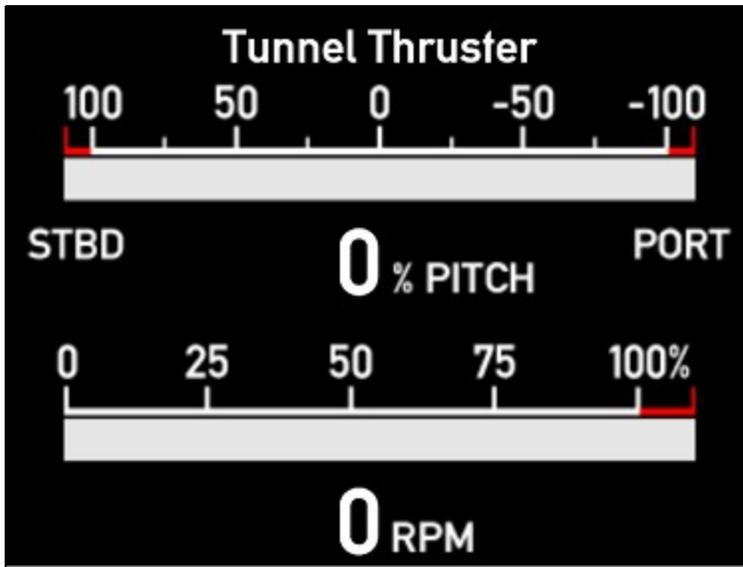
VS No.	Name	Description	Status	Notes
1	VS01 XDi-net	Input XDi-net RPM/RPM%: XDi-net Pitch%: XDi-net		See similar VS profile for VI001
2	VS02 TPDO	Input TPDO or XDi-net RPM/RPM%: TPDO/(RTC) Pitch%: TPDO/(RTC)		See similar VS profile for VI001

VI-setup profiles (VS) for VI013

VS No.	Name	Description	Status	Notes
3	VS03 Analogue	<p>Analogue</p> <p>Required: AX1 in Slot 1</p> <p>RPM/RPM%: AX1 S1i1: 4-20mA (+term9, -term8)</p> <p>Pitch%: AX1 S1i2: 4-20mA (+term5, -term4)</p> <p>AX1 input lost below 3.5mA</p>		See similar VS profile for VI001
4	VS04 DX-RPM	<p>Pickup</p> <p>Required: DX1 in Slot 1</p> <p>RPM/RPM%: DX1 S1i1: (+term11, -term10)</p> <p>Pitch%: TPDO/(RTC)/XD_i</p>		See similar VS profile for VI001
5	VS05 Obsolete	<p>Obsolete Use VS04 instead</p> <p>Required: DX1 in Slot 1</p> <p>RPM/RPM%: DX1 S1i1: (+term11, -term10)</p> <p>Pitch%: TPDO/(RTC)/XD_i</p>		This profile is not needed, function is now exactly the same as VS04.
6	VS06 RTC-pitch	<p>Analog RPM</p> <p>Required: AX1 in Slot 1</p> <p>RPM/RPM%: AX1 S1i1: 4-20mA (+term9, -term8) AX1 input lost below 3.5mA</p> <p>Pitch%: TPDO/(RTC)/XD_i</p>		See similar VS profile for VI001

VI 014

AFT PITCH



Description : TT AFT PITCH

Thruster Pitch $\pm 110\%$
 Actual Pitch range $\pm 200\%$
 Thruster RPM 0...110%
 Actual RPM range ± 3276

Status :

VI Notes : This indicator is available with setpoint in the multi library.
 The %Pitch bar graph colour is green to starboard and red to portside.

VI-setup profiles (VS) for VI014

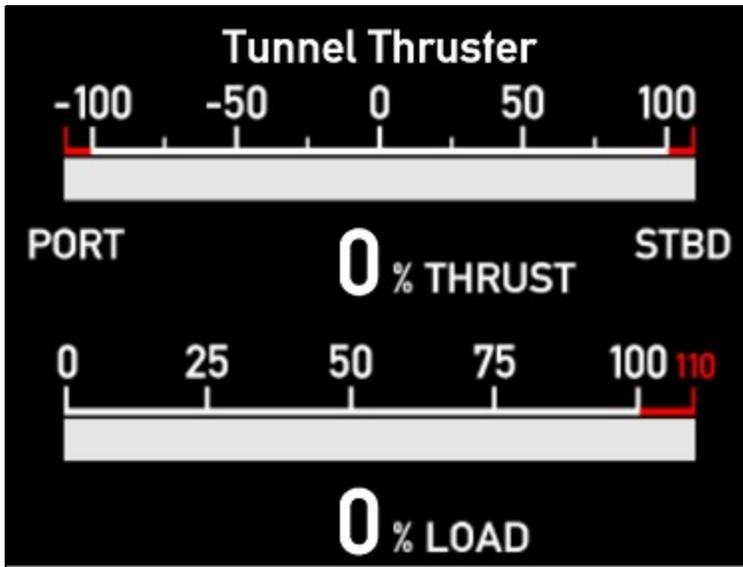
VS No.	Name	Description	Status	Notes
1	VS01 XDi-net	Input XDi-net RPM/RPM%: XDi-net Pitch%: XDi-net		See similar VS profile for VI001
2	VS02 TPDO	Input TPDO or XDi-net RPM/RPM%: TPDO/(RTC) Pitch%: TPDO/(RTC)		See similar VS profile for VI001

VI-setup profiles (VS) for VI014

VS No.	Name	Description	Status	Notes
3	VS03 Analogue	Analogue Required: AX1 in Slot 1 RPM/RPM%: AX1 S1i1: 4-20mA (+term9, -term8) Pitch%: AX1 S1i2: 4-20mA (+term5, -term4) AX1 input lost below 3.5mA		See similar VS profile for VI001
4	VS04 DX-RPM	Pickup Required: DX1 in Slot 1 RPM/RPM%: DX1 S1i1: (+term11, -term10) Pitch%: TPDO/(RTC)/XD _i		See similar VS profile for VI001
5	VS05 Obsolete	Obsolete Use VS04 instead Required: DX1 in Slot 1 RPM/RPM%: DX1 S1i1: (+term11, -term10) Pitch%: TPDO/(RTC)/XD _i		This profile is not needed, function is now exactly the same as VS04.
6	VS06 RTC-pitch	Analog RPM Required: AX1 in Slot 1 RPM/RPM%: AX1 S1i1: 4-20mA (+term9, -term8) AX1 input lost below 3.5mA Pitch%: TPDO/(RTC)/XD _i		See similar VS profile for VI001

VI 015

FWD THR



Description : TT FWD THR

Thruster $\pm 110\%$
 Actual Thrust range $\pm 200\%$
 Thruster Load 0...110%
 Actual Load $\pm 200\%$

Status : 

VI Notes : This indicator is available with setpoint in the multi library.
 The %Thrust bar graph colour is green to starboard and red to portside.
 Thrust indication is not part of MED!

VI-setup profiles (VS) for VI015

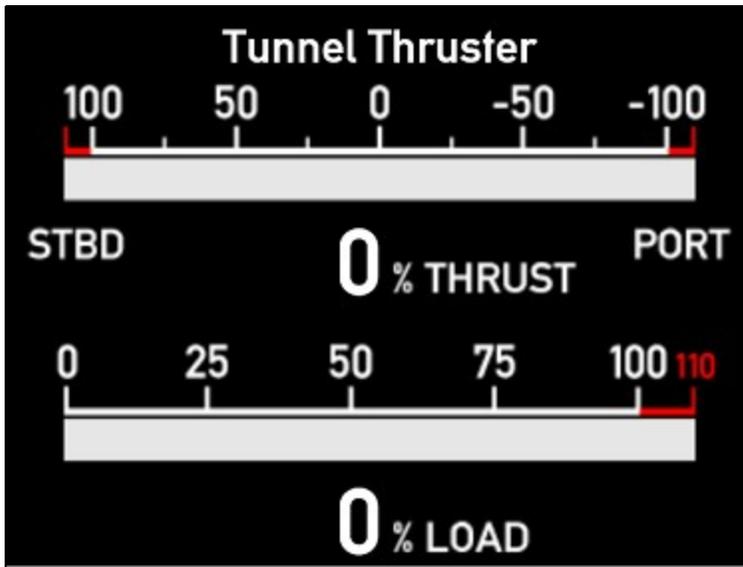
VS No.	Name	Description	Status	Notes
1	VS01 XDi-net	Input XDi-net Thrust%: XDi-net Load%: XDi-net		See similar VS profile for VI001
2	VS02 TPDO	Input TPDO or XDi-net Thrust%: TPDO Load%: TPDO		See similar VS profile for VI001

VI-setup profiles (VS) for VI015

VS No.	Name	Description	Status	Notes
3	VS03 Analog	Analogue Required: AX1 in Slot 1 Thrust%: AX1 S1i1: 4-20mA (+term9, -term8) Load%: AX1 S1i2: 4-20mA (+term5, -term4) AX1 input lost below 3.5mA		See similar VS profile for VI001

VI 016

AFT THR



Description : TT AFT THR

Thruster $\pm 110\%$
 Actual Thrust range $\pm 200\%$
 Thruster Load 0...110%
 Actual Load $\pm 200\%$

Status : 

VI Notes : This indicator is available with setpoint in the multi library.
 The %Thrust bar graph colour is green to starboard and red to portside.
 Thrust indication is not part of MED!

VI-setup profiles (VS) for VI016

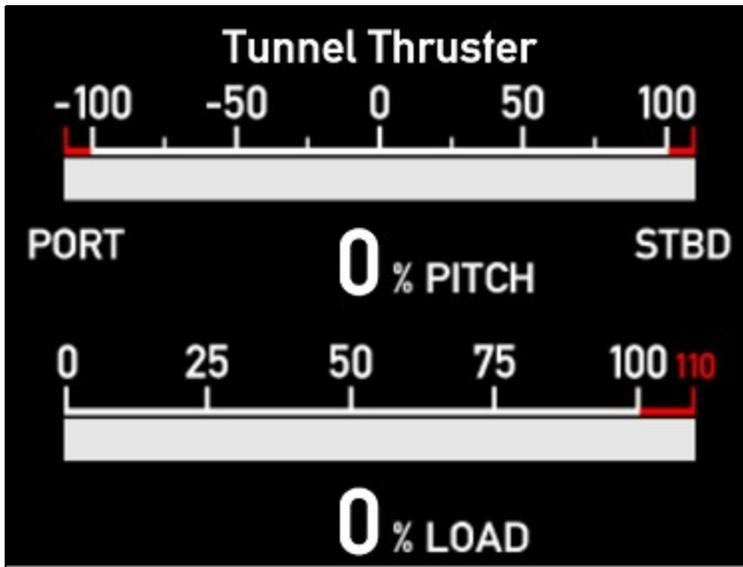
VS No.	Name	Description	Status	Notes
1	VS01 XDi-net	Input XDi-net Thrust%: XDi-net Load%: XDi-net		Support for NX1 NMEA out: Slot 1
2	VS02 TPDO	Input TPDO or XDi-net Thrust%: TPDO Load%: TPDO		Support for NX1 NMEA out: Slot 1

VI-setup profiles (VS) for VI016

VS No.	Name	Description	Status	Notes
3	VS03 Analog	Analogue Required: AX1 in Slot 1 Thrust%: AX1 S1i1: 4-20mA (+term9, -term8) Load%: AX1 S1i2: 4-20mA (+term5, -term4) AX1 input lost below 3.5mA		See similar VS profile for VI001

VI 017

FWD LOAD



Description : TT FWD LOAD

Thruster Pitch $\pm 110\%$
 Actual Pitch range $\pm 200\%$
 Thruster Load 0...110%
 Actual Load range $\pm 200\%$

Status : 

VI Notes :

VI-setup profiles (VS) for VI017

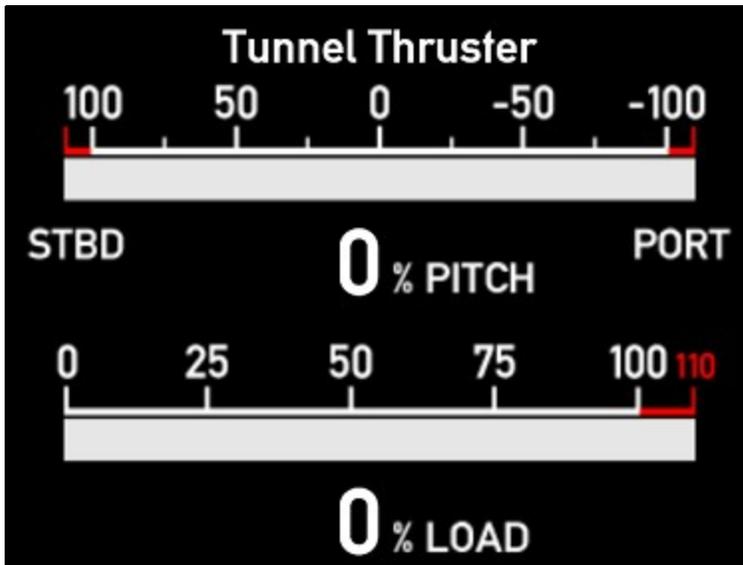
VS No.	Name	Description	Status	Notes
1	VS01 XDi-net	Input XDi-net Pitch%: XDi-net Load%: XDi-net		See similar VS profile for VI001
2	VS02 TPDO	Input TPDO or XDi-net Pitch%: TPDO/(RTC) Load%: TPDO/(RTC)		See similar VS profile for VI001

VI-setup profiles (VS) for VI017

VS No.	Name	Description	Status	Notes
3	VS03 Analogue	Analogue Required: AX1 in Slot 1 Pitch%: AX1 S1i1: 4-20mA (+term9, -term8) Load%: AX1 S1i2: 4-20mA (+term5, -term4) AX1 input lost below 3.5mA		See similar VS profile for VI001

VI 018

AFT LOAD



Description : TT AFT LOAD

Thruster Pitch $\pm 110\%$
 Actual Pitch range $\pm 200\%$
 Thruster Load 0...110%
 Actual Load range $\pm 200\%$

Status :



VI Notes :

VI-setup profiles (VS) for VI018

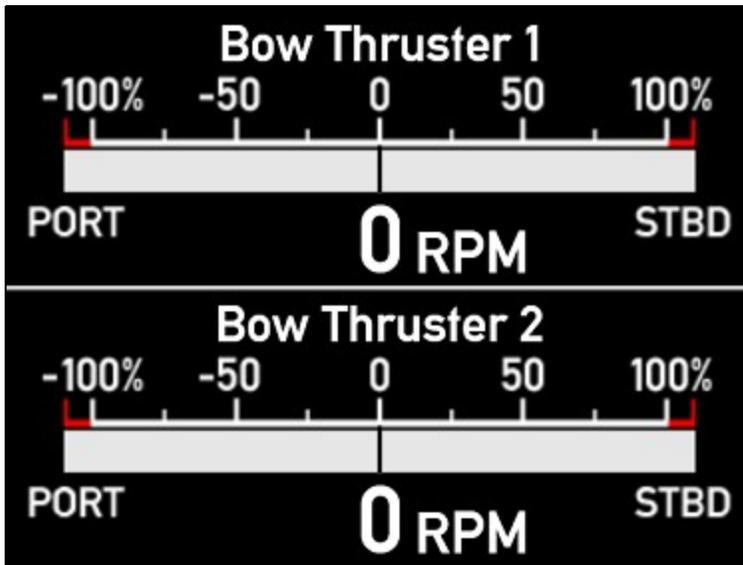
VS No.	Name	Description	Status	Notes
1	VS01 XDi-net	Input XDi-net Pitch%: XDi-net Load%: XDi-net		See similar VS profile for VI001
2	VS02 TPDO	Input TPDO or XDi-net Pitch%: TPDO/(RTC) Load%: TPDO/(RTC)		See similar VS profile for VI001

VI-setup profiles (VS) for VI018

VS No.	Name	Description	Status	Notes
3	VS03 Analogue	Analogue Required: AX1 in Slot 1 Pitch%: AX1 S1i1: 4-20mA (+term9, -term8) Load%: AX1 S1i2: 4-20mA (+term5, -term4) AX1 input lost below 3.5mA		See similar VS profile for VI001

VI 019

Fw 2xRPM



Description : 2xTT RPM FWD

Thruster1 RPM $\pm 110\%$
 Actual RPM range ± 3276
 Thruster2 RPM $\pm 110\%$
 Actual RPM range ± 3276
 W/ selectable headlines

Status :



VI Notes :

VI-setup profiles (VS) for VI019

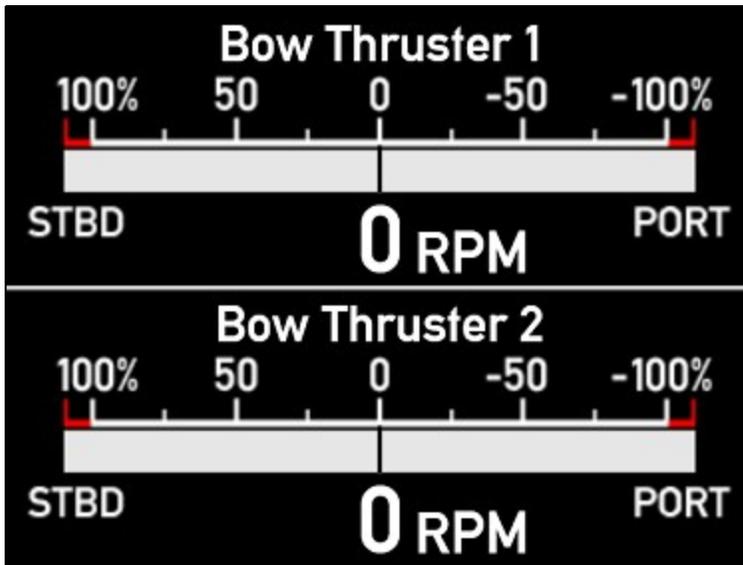
VS No.	Name	Description	Status	Notes
1	VS01 XDi-net	Input XDi-net XDi-netXDi-net RPM1: 0x3081:02 RPM%1: 0x3091:02 RPM2: 0x3082:02 RPM%2: 0x3092:02 NMEA out using NX1 module. TRD sentens must be activated from XDi NMEA outp. menu		NME output is activated from XDi install menu/NMEA setup/NMEA output setup/ select TRD sentence and activate Port1 (TX1) and/or Port2 (TX2). TX interval can also be changed. TRD will contain actual RPM1 for BT#1 and RPM2 for BT#3.

VI-setup profiles (VS) for VI019

VS No.	Name	Description	Status	Notes
2	VS02 TPDO	<p>Input TPDO or XDi-net Data format signed 16bit 3000= 300.0RPM= 100% Data mapped in TPDO 0x183 RPM 1: Byte 0,1 RPM% 1 calculated RPM 2: Byte 2,3 RPM% 2 calculated</p> <p>NMEA out using NX1 module. TRD sentens must be activated from XDi NMEA outp. menu</p>		<p>The RPM1/%1 and RPM2/%2 scaling of the values in the TPDO can be changed via XDi Adjust input menu. The TPDO COBID and mapping location can also be changed. F.ex. change from using the default mapped TPDO) to instead use 2 not mapped TPDO's. NMEA activation see note for VS01.</p>
3	VS03 Analog	<p>Analogue Required: AX1 in Slot 1</p> <p>RPM/RPM%1: AX1 S1i1 4-20mA (+term9, -term8)</p> <p>RPM/RPM%2: AX1 S1i2 4-20mA (+term5, -term4)</p> <p>Default 4 mA= -330.0 RPM (-110%) 12 mA = 0.0 (0%) 20 mA = 330.0 RPM (110%)</p> <p>AX1 input lost below 3.5mA</p>		<p>The 4-20mA input scaling to ?/- RPM values can be changed via XDi Install menu/Adjust input. It is a 3 point calibration (internal resolution is 0.1 so 1000=100.0 RPM) When the RPM scaling is in place the RPM values for +/-100% RPM can be adjusted in the same menu.</p>

VI 020

Aft 2xRPM



Description : 2xTT RPM AFT

Thruster1 RPM $\pm 110\%$
 Actual RPM range ± 3276
 Thruster2 RPM $\pm 110\%$
 Actual RPM range ± 3276
 W/ selectable headlines

Status :



VI Notes :

VI-setup profiles (VS) for VI020

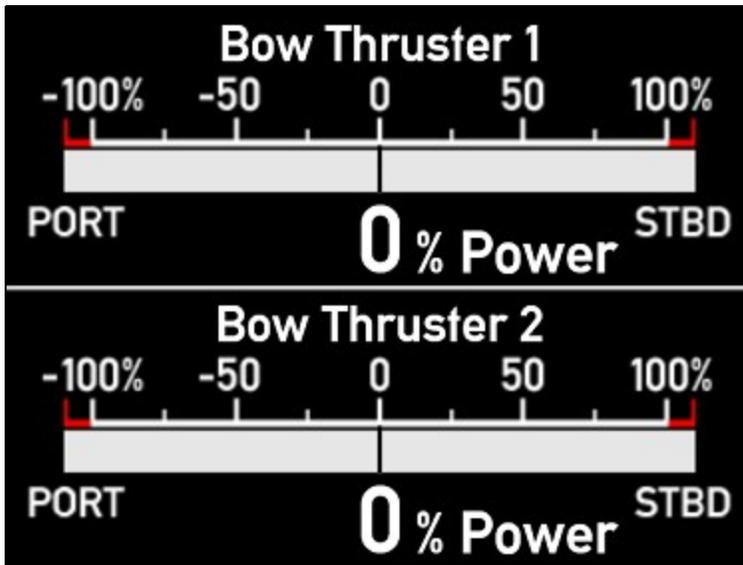
VS No.	Name	Description	Status	Notes
1	VS01 XDi-net	Input XDi-net XDi-netXDi-net RPM1: 0x3081:02 RPM%1: 0x3091:02 RPM2: 0x3082:02 RPM%2: 0x3092:02 NMEA out using NX1 module. Sentens must be activated		NME output is activated from XDi install menu/NMEA setup/NMEA output setup/ select TRD sentence and activate Port1 (TX1) and/or Port2 (TX2). TX interval can also be changed. TRD will contain actual RPM1 for BT#1 and RPM2 for BT#3.

VI-setup profiles (VS) for VI020

VS No.	Name	Description	Status	Notes
2	VS02 TPDO	<p>Input TPDO or XDi-net Data format signed 16bit 3000= 300.0RPM= 100% Data mapped in TPDO 0x183</p> <p>RPM 1: Byte 0,1 RPM% 1 calculated RPM 2: Byte 2,3 RPM% 2 calculated</p> <p>NMEA out using NX1 module. Sentens must be activated</p>		See VI019, VS02 notes
3	VS03 Analog	<p>Analogue Required: AX1 in Slot 1</p> <p>RPM/RPM%1: AX1 S1i1 4-20mA (+term9, -term8)</p> <p>RPM/RPM%2: AX1 S1i2 4-20mA (+term5, -term4)</p> <p>Default 4 mA= -330.0 RPM (-110%) 12 mA = 0.0 (0%) 20 mA = 330.0 RPM (110%)</p> <p>AX1 input lost below 3.5mA</p>		See VI019, VS03 notes.

VI 021

Fw 2xUni



Description : 2xTT Universal FWD

Power%, Thrust%, Load%, RPM%

Thruster1 Data%1 ±110%
Thruster2 Data%2: ±110%
Digital max. ±200%
W/ selectable headlines

Status : 

VI Notes : This universal indicator can be used for any type of % data.
It has default unit labels for % Power, % Thrust, % Load and % RPM
Other units can be added from the virtual keyboard in XDi

VI-setup profiles (VS) for VI021

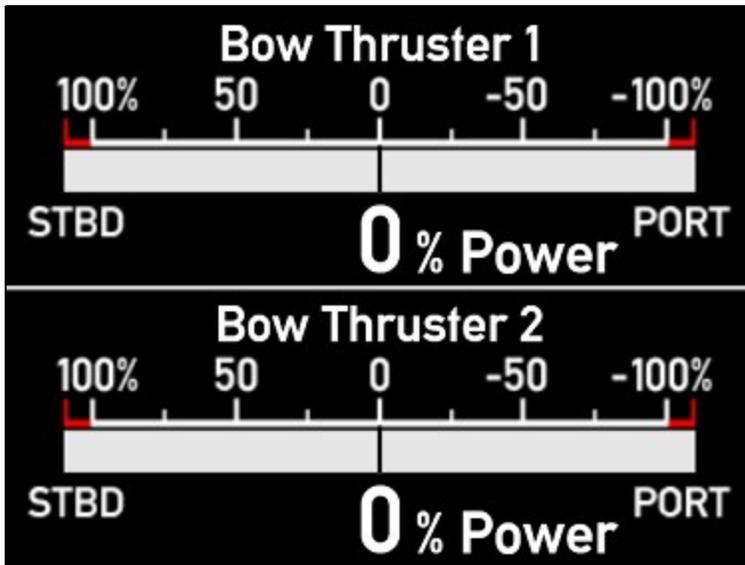
VS No.	Name	Description	Status	Notes
1	VS01 XDi-net	Input XDi-net XDi-netXDi-net Data: 16 bit Res. 0.1%, 100 = 10.0% Top indicator: Data%1: 0x3701:02 Bottom indicator: Data%2: 0x3702:02 Unit can be changed from XDi menu		

VI-setup profiles (VS) for VI021

VS No.	Name	Description	Status	Notes
2	VS02 TPDO	Input TPDO or XDi-net Data format: Signed 16bit 1000 = 100% Data are mapped in TPDO: 0x185 Data%1: Byte 0,1 Data%2: Byte 2,3 Unit can be changed from XDi menu		The Data1 and Data 2 scaling of input values in the TPDO can be changed via XDi Adjust input menu. The TPDO COBID and mapping location can also be changed. F.ex. change from the mapped TPDO (Default) to use 2 not mapped TPDO's instead.
3	VS03 Analog	Analogue Required: AX1 in Slot 1 Data%1: AX1 S1i1 4-20mA (+term9, -term8) Data%2: AX1 S1i2 4-20mA (+term5, -term4) Unit can be changed from XDi menu Default 4 mA= -110.0 % 12 mA = 0.0 (0%) 20 mA = 110.0 % AX1 input lost below 3.5mA		The 4-20mA input scaling to %Data values can be changed via XDi Install menu/Adjust input. It is a 3 point calibration.

VI 022

Aft 2xUni



Description : 2xTT Universal AFT

Power%, Thrust%, Load%, RPM%

Thruster1 Data%1 $\pm 110\%$
Thruster2 Data%2: $\pm 110\%$
Digital max. $\pm 200\%$
W/ selectable headlines

Status :



VI Notes : See VI021 note.

VI-setup profiles (VS) for VI022

VS No.	Name	Description	Status	Notes
1	VS01 XDi-net	Input XDi-net XDi-netXDi-net Data: 16 bit Res. 0.1%, 100 = 10.0% Top indicator: Data%1: 0x3701:02 Bottom indicator: Data%2: 0x3702:02 Unit can be changed from XDi menu		

VI-setup profiles (VS) for VI022

VS No.	Name	Description	Status	Notes
2	VS02 TPDO	Input TPDO or XDi-net Data format: Signed 16bit 1000 = 100% Data are mapped in TPDO: 0x185 Data%1: Byte 0,1 Data%2: Byte 2,3 Unit can be changed from XDi menu		See VI021, VS02 notes.
3	VS03 Analog	Analogue Required: AX1 in Slot 1 Data%1: AX1 S1i1 4-20mA (+term9, -term8) Data%2: AX1 S1i2 4-20mA (+term5, -term4) Unit can be changed from XDi menu Default 4 mA= -110.0 % 12 mA = 0.0 (0%) 20 mA = 110.0 % AX1 input lost below 3.5mA		See VI021, VS03 notes.