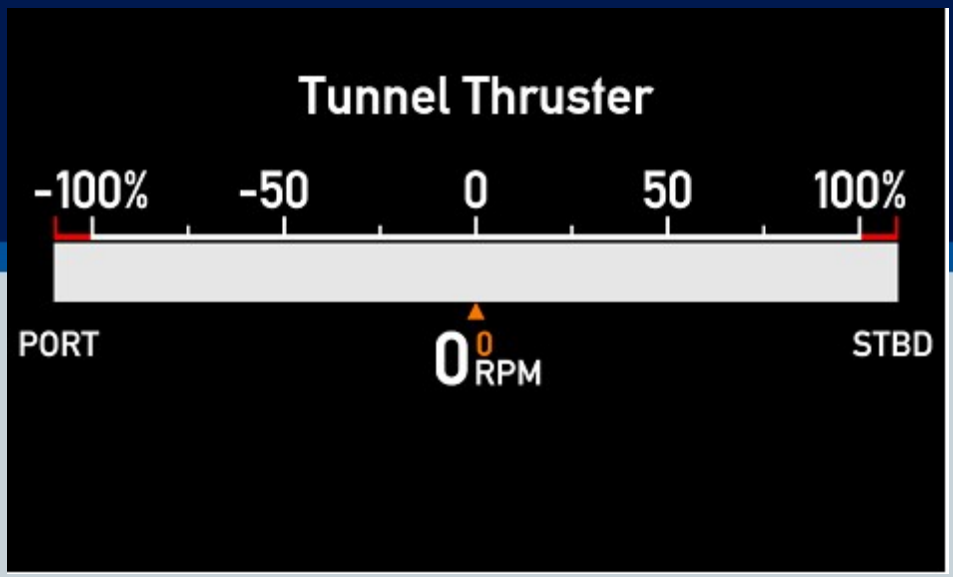
XDi 144/192 Multi

Tunnel Thruster



Library owner: DEIF STANDARD LIB

Library number: 11

Library version: 2010

Table of Contents

Library description :

This XDi Multi library contains a selection of Tunnel Thruster Multi indicators (VI), 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 NX NMEA extension module.
Default CAN setup and dimmer input configurations are available in the selection of product profiles (PP).
IMPORTANT: All 4-20mA inputs in this library has an input error detection function when input current is below 3.5mA (input lost) or above 21mA. If the input type and scaling is changed you must also change the error limits low and high in the input adjust menu.

PLEASE NOTE:
This library is using XDi platform 2 main software (version no. higher than 2000). It is possible to update an existing XDi "Platform1" unit to "Platform 2".
It is important that you always use the latest Upgrade tool, it can be downloaded from DEIF.com - Software.
Please also note that it will take a little longer to upgrade to a new platform than when making an update where the correct platform software is already installed.

Library status symbols :

	Released & Locked
	Approved
	Pending
	Draft
	Not approved

XDi Library Information

Timestamp 08-02-2023 16:36:39

Library Specification

Library owner no. :	000001
Library owner name :	DEIF STANDARD LIB
Product type :	XDi 144/192
Performance class :	Multi
Library number :	11
Library name :	Tunnel Thruster
Library orientation :	Landscape
Library status :	Released & Locked
Library version :	2010
Last changed :	08-02-2023 16:36:30

Library default settings :

180 display rotation :	False
CAN NodeID :	30

Library notes :

08-02-2023/SJS, Ver. 2009: 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.

The default library settings can be changed using the startup wizard or via installation menu.
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.

22-12-2021/JOL, Ver.2008: PP04 Colour shift now works as described without change via XDi menu.

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15-12-2021/JOL, Ver.2007: Library is moved to XDi main software platform 2. AX1 4-20mA input lost detection is implemented
in all relevant VS profiles. Bug fix in VI016/VS03 Thr% and VS014/VS04 Pitch%set should be with 3 point calibration.

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21-01-2019/JOL, Ver. 5: Max backlight level is reduced from 250 to 225 in XDi192 (only) to increase backlight lifetime at high operating temperatures.
It can be increased to 250 again via XDi user menu.

Product profiles (PP)

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

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PP No.	PP Name	Description	Status	Notes
1	PP01 XDi-net	**Dim XDi-net/Front button** Dimmer via XDi-net (CAN) and/or via front buttons. Requires option: Front frame with buttons **Default settings:** XDi-net active Dimmer group 1 Dimming via XDi-net Auto Day/Night Shift at 70% Monitoring supply voltage 1	🔒	CANbus and Dimmer settings can be changed from XDi menu
2	PP02 Analogue	**Analogue Dimmer** Required: AX1 in Slot 1 Dimmer potmeter (+ term 3, - term 1, wiper term 2) Can be reconfigured to voltage input **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	🔒	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.
3	PP03 CAN	**CAN Dimmer** CANopen TPDO dimming **Default settings:** Dimmer group 1 Auto Day/Night Shift at 70% Monitoring supply voltage 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.

PP No.	PP Name	Description	Status	Notes
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 voltage 1	🔒	Digital input configuration can be changed from menu.
5	PP05 Analogue	**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 on XDi-net) Monitoring supply voltage 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 Fixed	**ECR Fixed Dimmer** Dimmer level can be adjusted from front buttons. Option: Front frame with buttons can be used. **Default settings:** XDi-net active Dimmer group: Local Dimmer level 80% to extend backlight life Auto Day/Night Shift at 70% Monitoring supply voltage 1	🔒	Default fixed dimmer level is reduced to 75% 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.

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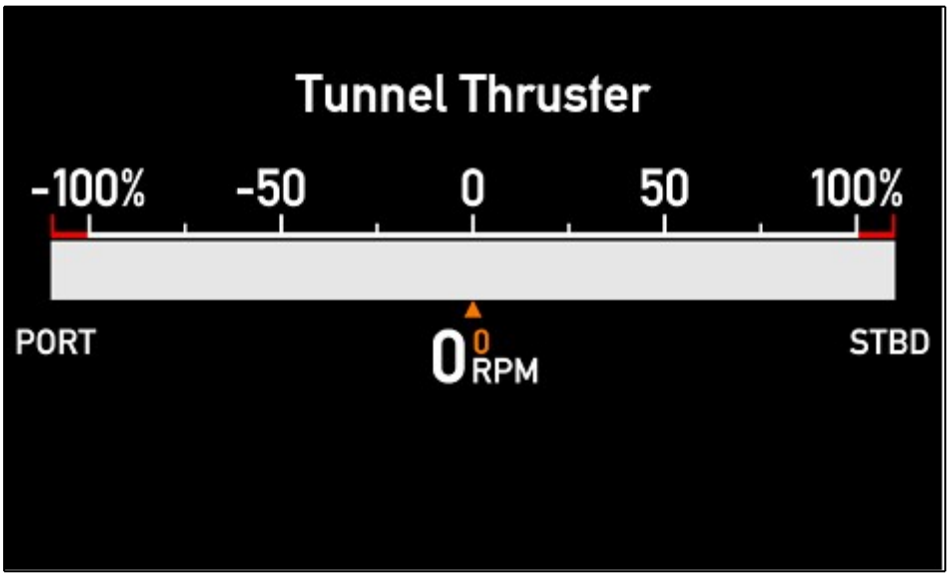
VI No.	Name	VI-setup profiles (VS)	Approvals	Status
001	TT FWD RPM	5		
002	TT AFT RPM	5		
003	TT FWD PITCH	4		
004	TT AFT PITCH	4		
005	TT FWD THRUST	3		
006	TT AFT THRUST	3		
007	Reserved	1		
008	Reserved	1		
009	Reserved	1		
010	Reserved	1		
011	TT FWD RPM	5		
012	TT AFT RPM	5		
013	TT FWD PITCH	5		
014	TT AFT PITCH	5		
015	TT FWD THRUST	3		
016	TT AFT THRUST	3		

 Approvals only apply for XDi 192.

Timestamp 08-02-2023 16:36:40

VI 001 **TT FWD RPM**



Description : **THRUSTER FWD RPM**

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

All with set point

Status :

VI Notes : Bargraph is Green to starboard and red to portside.

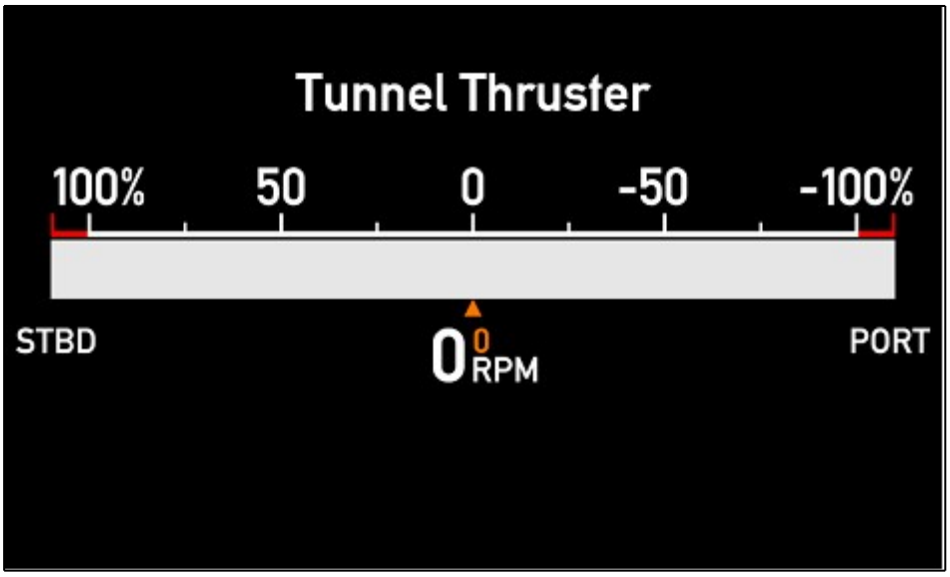
VI-setup profiles (VS) for VI001

VS No.	Name	Description	Status	Notes
1	VS01 XDi-net	**All input data via XDi-net** RPM/RPM%: XDi-net RPM/RPM% set-point: XDi-net	🔒	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 2
2	VS02 TPDO	**All input data via TPDO** or XDi-net RPM/RPM%: TPDO RPM/RPM% set-point: TPDO	🔒	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 2
3	VS03 Analogue	**Analogue system** Required: AX1 in Slot 1 RPM/RPM%: AX1 S1i1: 4-20mA (+term9, -term8) RPM/RPM% set-point: AX1 S1i2: 4-20mA (+term5, -term4) Input lost if below 3.5mA	🔒	Analogue input type and scaling can be changes from XDi installation menu. Support for NX1 NMEA out: Slot 2

VI-setup profiles (VS) for VI001

VS No.	Name	Description	Status	Notes
4	VS04 DX ±RPM	**With analogue set** Required: AX1 in Slot 1 and DX1 in Slot 2 RPM/RPM%: DX1 S2i1: (+term11, -term10) S2i2: (+term9, -term8) RPM/RPM% set-point: AX1 S1i2: 4-20mA (+term5, -term4) Input lost if below 3.5mA		Digital RPM input scaling can be changes from XDi installation menu. Analogue input type and scaling can be changes from XDi installation menu.
5	VS05 Analogue Set	**Use with VS4** Required: AX1 in Slot 1 RPM/RPM%: TPDO/(XDi-net) RPM/RPM% set-point: AX1 S1i2: 4-20mA (+term5, -term4) Input lost if below 3.5mA		Support for NX1 NMEA out: Slot 2

VI 002 **TT AFT RPM**



Description : **THRUSTER AFT RPM**

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

All with set point

Status :

VI Notes : Bargraph is Green to starboard and red to portside.

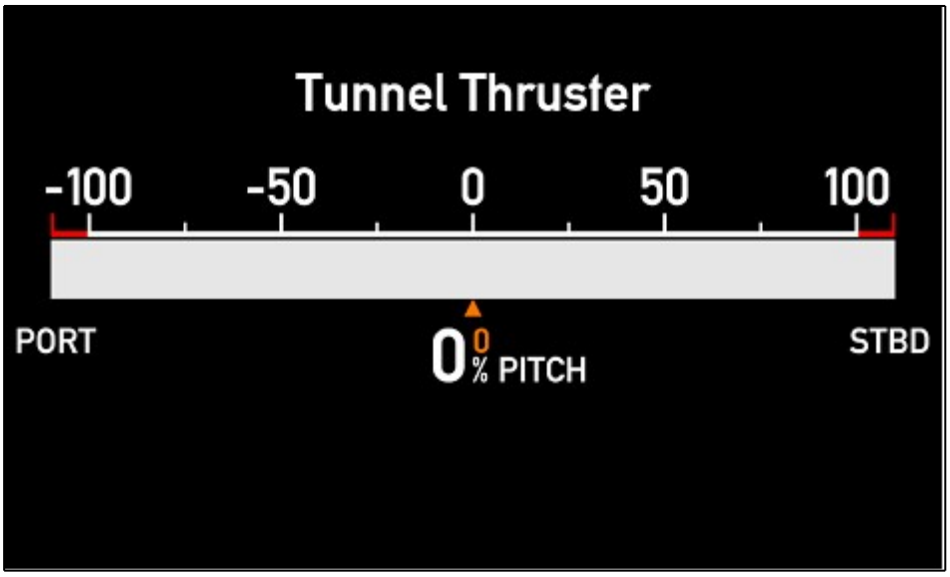
VI-setup profiles (VS) for VI002

VS No.	Name	Description	Status	Notes
1	VS01 XDi-net	**All input data via XDi-net** RPM/RPM%: XDi-net RPM/RPM% set-point: XDi-net		See similar VS profile for VI001
2	VS02 TPDO	**All input data via TPDO** or XDi-net RPM/RPM%: TPDO RPM/RPM% set-point: TPDO		See similar VS profile for VI001

VI-setup profiles (VS) for VI002

VS No.	Name	Description	Status	Notes
3	VS03 Analogue	**Analogue system** Required: AX1 in Slot 1 RPM/RPM%: AX1 S1i1: 4-20mA (+term9, -term8) RPM/RPM% set-point: AX1 S1i2: 4-20mA (+term5, -term4) Input lost if below 3.5mA	🔒	See similar VS profile for VI001
4	VS04 DX ±RPM	**With analogue set** Required: AX1 in Slot 1 and DX1 in Slot 2 RPM/RPM%: DX1 S2i1: (+term11, -term10) S2i2 (+term9, -term8) RPM/RPM% set-point: AX1 S1i2: 4-20mA (+term5, -term4) Input lost if below 3.5mA	🔒	See similar VS profile for VI001
5	VS05 Analogue Set	**Use with VS4** Required: AX1 in Slot 1 RPM/RPM%: TPDO/(XDi-net) RPM/RPM% set-point: AX1 S1i2: 4-20mA (+term5, -term4) Input lost if below 3.5mA	🔒	See similar VS profile for VI001

VI 003 **TT FWD PITCH**



Description : **THRUSTER FWD PITCH**

Tunnel Thruster Pitch ±110%
Actual Pitch range ±200% with digital readout

All with set point

Status :

VI Notes : Bargraph is Green to starboard and red to portside.

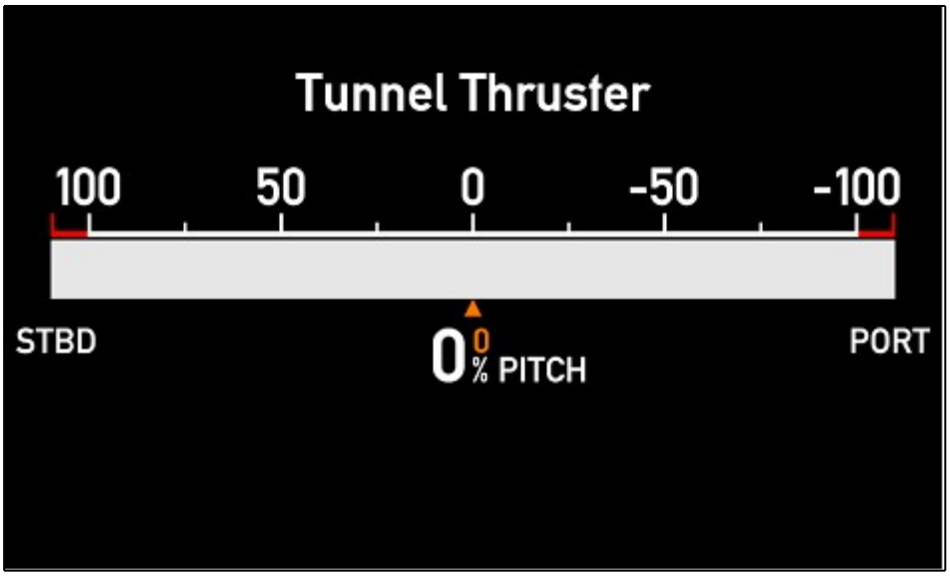
VI-setup profiles (VS) for VI003

VS No.	Name	Description	Status	Notes
1	VS01 XDi-net	**All input data via XDi-net** Pitch%: XDi-net Pitch% set-point: XDi-net		See similar VS profile for VI001
2	VS02 TPDO	**All input data via TPDO** or XDi-net Pitch%: TPDO Pitch% set-point: TPDO		See similar VS profile for VI001

VI-setup profiles (VS) for VI003

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

VI 004 **TT AFT PITCH**



Description : **THRUSTER AFT PITCH**

Tunnel Thruster Pitch ±110%
Actual Pitch range ±200% with digital readout

All with set point

Status :

VI Notes : Bargraph is Green to starboard and red to portside.

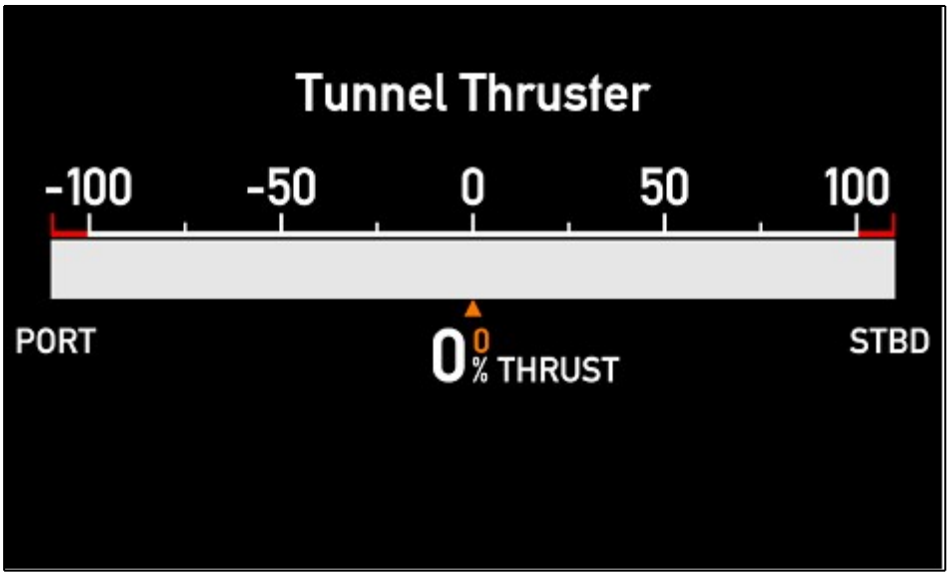
VI-setup profiles (VS) for VI004

VS No.	Name	Description	Status	Notes
1	VS01 XDi-net	**All input data via XDi-net** Pitch%: XDi-net Pitch% set-point: XDi-net		See similar VS profile for VI001
2	VS02 TPDO	**All input data via TPDO** or XDi-net Pitch%: TPDO (XDi-net) Pitch% set-point: TPDO (XDi-net)		See similar VS profile for VI001

VI-setup profiles (VS) for VI004

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

VI 005 **TT FWD THRUST**



Description : **THRUSTER FWD THRUST**

Tunnel Thruster ±110%
Actual Thrust range ±200% with digital readout

All with set point

Status :

VI Notes : Bargraph is Green to starboard and red to portside.
Indication of thrust is not covered by MED Annex A.1.

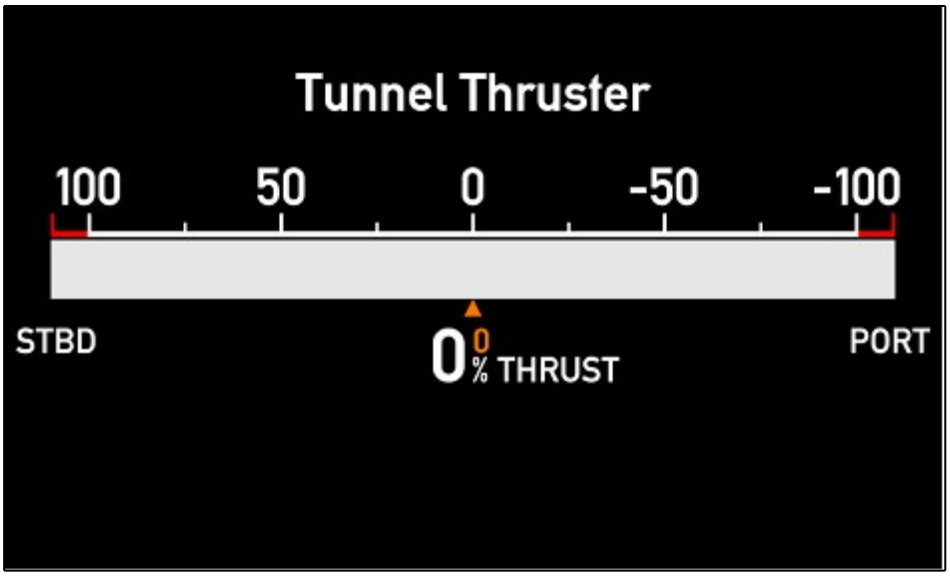
VI-setup profiles (VS) for VI005

VS No.	Name	Description	Status	Notes
1	VS01 XDi-net	**All input data via XDi-net** Thrust%: XDi-net Thrust% set-point: XDi-net		See similar VS profile for VI001
2	VS02 TPDO	**All input data via TPDO** or XDi-net Thrust%: TPDO Thrust% set-point: TPDO		See similar VS profile for VI001

VI-setup profiles (VS) for VI005

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

VI 006 **TT AFT THRUST**



Description : **THRUSTER AFT THRUST**

Tunnel Thruster ±110%
Actual Thrust range ±200% with digital readout

All with set point

Status :

VI Notes : Bargraph is Green to starboard and red to portside.
Indication of thrust is not covered by MED Annex A.1.

VI-setup profiles (VS) for VI006

VS No.	Name	Description	Status	Notes
1	VS01 XDi-net	**All input data via XDi-net** Thrust%: XDi-net Thrust% set-point: XDi-net		See similar VS profile for VI001
2	VS02 TPDO	**All input data via TPDO** or XDi-net Thrust%: TPDO Thrust% set-point: TPDO		See similar VS profile for VI001

VI-setup profiles (VS) for VI006

VS No.	Name	Description	Status	Notes
3	VS03 Analogue	**Analogue system** Required: AX1 in Slot 1 Thrust%: AX1 S1i1: 4-20mA (+term9, -term8) Thrust% set-point: AX1 S1i2: 4-20mA (+term5, -term4) Input lost if 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	Setup	**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	Setup	**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	Setup	**Setup** Add description Add description.		

VI 010 **Reserved**

Description : **Reserved**

Reserved for future use

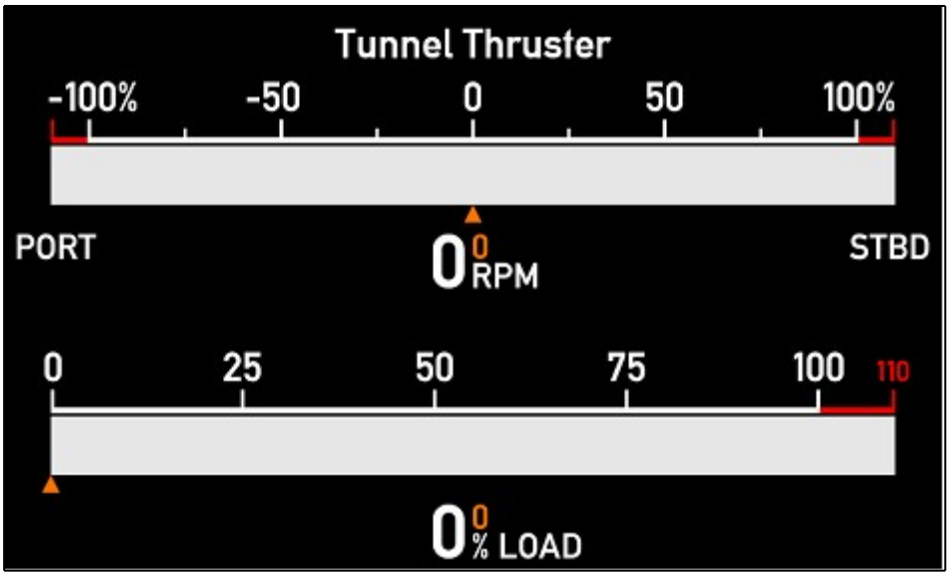
Status :

VI Notes :

VI-setup profiles (VS) for VI010

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

VI 011 **TT FWD RPM**



Description : **THRUSTER FWD RPM**

Tunnel Thruster RPM ±110%
Actual RPM range ±3276 with digital readout
Tunnel Thruster Load 0...110%
Actual Load ±200% with digital readout

All with set point

Status :

VI Notes : Upper bargraph is Green to starboard and red to portside.
Lower bargraph is green.

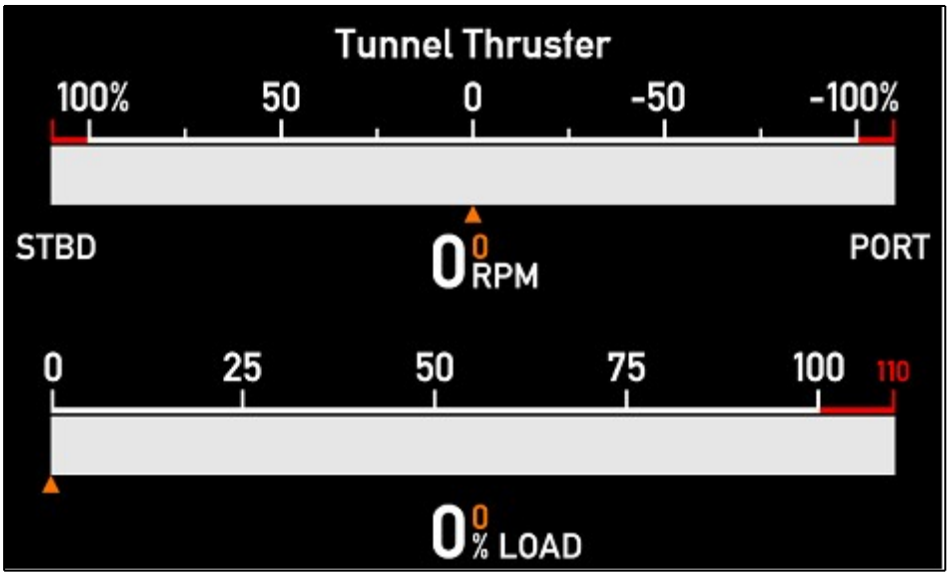
VI-setup profiles (VS) for VI011

VS No.	Name	Description	Status	Notes
1	VS01 XDi-net	**All input data via XDi-net** RPM/RPM%: XDi-net RPM/RPM% set-point: XDi-net Load%: XDi-net Load% set-point: XDi-net		See similar VS profile for VI001

VI-setup profiles (VS) for VI011

VS No.	Name	Description	Status	Notes
2	VS02 TPDO	**All input data via TPDO** or XDi-net RPM/RPM%: TPDO RPM/RPM% set-point: TPDO Load%: TPDO Load% set-point: TPDO	🔒	See similar VS profile for VI001
3	VS03 Analogue	**Analogue system** Required: AX1 in Slot 1 and 2 RPM/RPM%: AX1 S1i1: 4-20mA (+term9, -term8) RPM/RPM% set-point: AX1 S2i1: 4-20mA (+term9, -term8) Load%: AX1 S1i2: 4-20mA (+term5, -term4) Load% set-point: AX1 S2i2: 4-20mA (+term5, -term4) Input lost if below 3.5mA	🔒	See similar VS profile for VI001
4	VS04 DX ±RPM	**Analogue Load** Required: AX1 in Slot 1 and DX1 in Slot 2 RPM/RPM%: DX1 S2i1: (+term11, -term10) S2i2: (+term8, -term7) RPM/RPM% set-point: AX1 S2i1: 4-20mA (+term9, -term8) Load%: AX1 S1i2: 4-20mA (+term5, -term4) Load% set-point: TPDO/(XDi-net) Input lost if below 3.5mA	🔒	See similar VS profile for VI001
5	VS05 Analogue Set	**Use with VS4** Required: AX1 in Slot 1 RPM/RPM%: TPDO/(XDi-net) RPM/RPM% set-point: TPDO/(XDi-net) Load%: TPDO/(XDi-net) Load% set-point: AX1 S1i1: 4-20mA (+term9, -term8) Input lost if below 3.5mA	🔒	See similar VS profile for VI001

VI 012 **TT AFT RPM**



Description : **THRUSTER AFT RPM**

Tunnel Thruster RPM ±110%
Actual RPM range ±3276 with digital readout
Tunnel Thruster Load 0...110%
Actual Load ±200% with digital readout

All with set point

Status :

VI Notes : Upper bargraph is Green to starboard and red to portside.
Lower bargraph is green.

VI-setup profiles (VS) for VI012

VS No.	Name	Description	Status	Notes
1	VS01 XDi-net	**XDi-net** All input data received via XDi-net RPM/RPM%: XDi-net RPM/RPM% set-point: XDi-net Load%: XDi-net Load% set-point: XDi-net		See similar VS profile for VI001

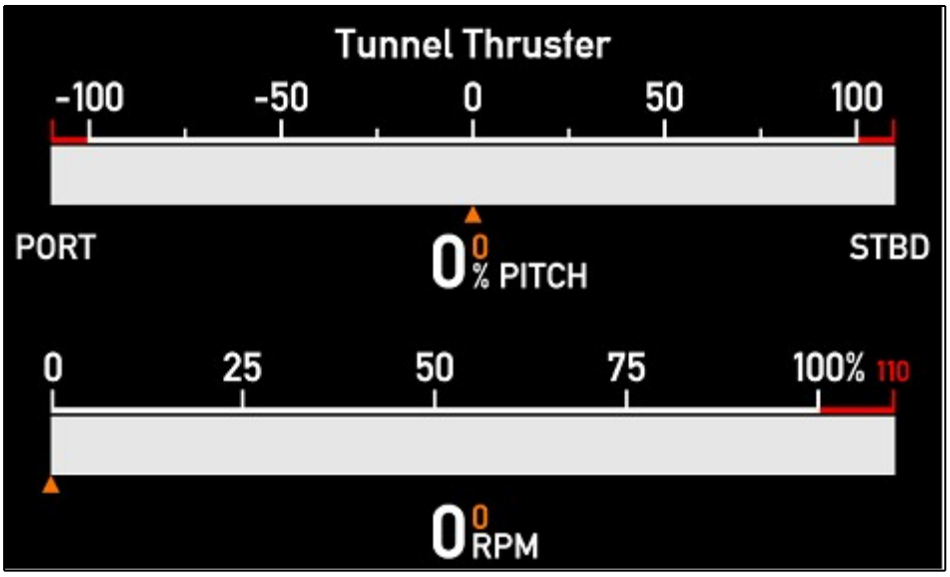
VI-setup profiles (VS) for VI012

VS No.	Name	Description	Status	Notes
2	VS02 TPDO	**TPDO** or XDi-net All input data received via TPDO RPM/RPM%: TPDO (XDi-net) RPM/RPM% set-point: TPDO (XDi-net) Load%: TPDO (XDi-net) Load% set-point: TPDO (XDi-net)	🔒	See similar VS profile for VI001
3	VS03 Analogue	**Analogue system** Required: AX1 in Slot 1 and 2 RPM/RPM%: AX1 S1i1: 4-20mA (+term9, -term8) RPM/RPM% set-point: AX1 S2i1: 4-20mA (+term9, -term8) Load%: AX1 S1i2: 4-20mA (+term5, -term4) Load% set-point: AX1 S2i2: 4-20mA (+term5, -term4) Input lost if below 3.5mA	🔒	See similar VS profile for VI001
4	VS04 DX-RPM	**DX-RPM Pickup, analogue Load** Required: AX1 in Slot 1, DX1 in Slot 2 RPM/RPM%: DX1 S2i1: (+term11, -term10), S2i2: (+term8, -term7) RPM/RPM% set-point: AX1 S2i1: 4-20mA (+term9, -term8) Load%: AX1 S1i2: 4-20mA (+term5, -term4) Load% set-point: CAN TPDO/(XDi-net) Input lost if below 3.5mA	🔒	See similar VS profile for VI001

VI-setup profiles (VS) for VI012

VS No.	Name	Description	Status	Notes
5	VS05 Analogue Set	**Analogue set-points (use with VS4)** Required: AX1 in Slot 1 RPM/RPM%: CAN TPDO (RTC)/(XDi-net) RPM/RPM% set-point: CAN TPDO (RTC)/(XDi-net) Load%: CAN TPDO (RTC)/(XDi-net) Load% set-point: AX1 S1i1: 4-20mA (+term9, -term8) Input lost if below 3.5mA		See similar VS profile for VI001

VI 013 **TT FWD PITCH**



Description : **THRUSTER FWD PITCH**

Tunnel Thruster Pitch ±110%
Actual Pitch range ±200% with digital readout
Tunnel Thruster RPM 0...110%
Actual RPM range ±3276 with digital readout

All with set point

Status :

VI Notes : Upper bargraph is Green to starboard and red to portside.
Lower bargraph is green.

VI-setup profiles (VS) for VI013

VS No.	Name	Description	Status	Notes
1	VS01 XDi-net	**XDi-net** All input data received via XDi-net Pitch%: XDi-net Pitch% set-point: XDi-net RPM/RPM%: XDi-net RPM/RPM% set-point: XDi-net		See similar VS profile for VI001

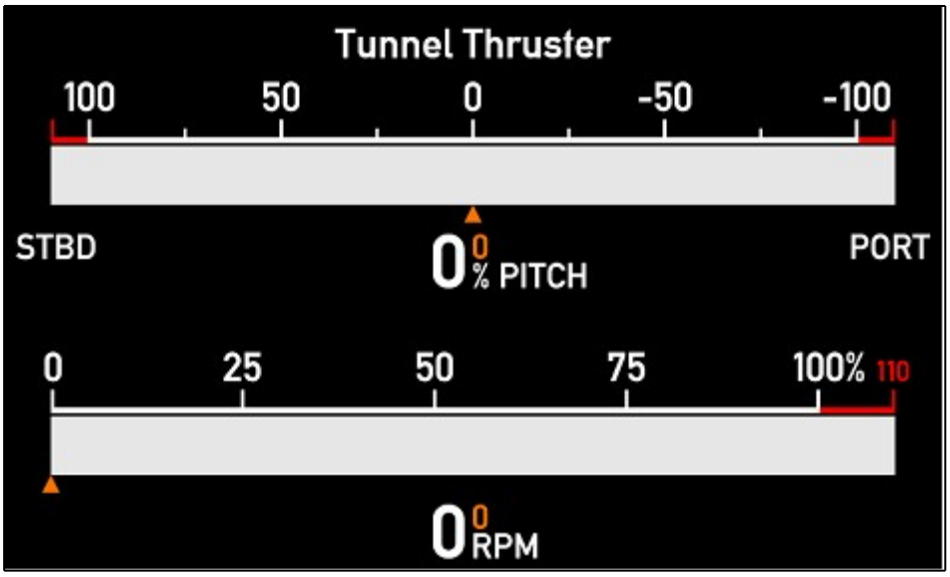
VI-setup profiles (VS) for VI013

VS No.	Name	Description	Status	Notes
2	VS02 TPDO	**TPDO** or XDi-net All input data received via TPDO Pitch%: TPDO (XDi-net) Pitch% set-point: TPDO (XDi-net) RPM/RPM%: TPDO (XDi-net) RPM/RPM% set-point: TPDO (XDi-net)	🔒	See similar VS profile for VI001
3	VS03 Analogue	**Analogue system** Required: AX1 in Slot 1 and 2 RPM/RPM%: AX1 S1i1: 4-20mA (+term9, -term8) RPM/RPM% set-point: AX1 S2i1: 4-20mA (+term9, -term8) Pitch%: AX1 S1i2: 4-20mA (+term5, -term4) Pitch% set-point: AX1 S2i2: 4-20mA (+term5, -term4) Input lost if below 3.5mA	🔒	See similar VS profile for VI001
4	VS04 DX-RPM Pickup	**DX-RPM Pickup, analogue Pitch** Required: AX1 in Slot 1, DX1 in Slot 2 RPM/RPM%: DX1 S2i1: (+term11, -term10) RPM/RPM% set-point: CAN TPDO/(XDi-net) Pitch%: AX1 S1i1: 4-20mA (+term9, -term8) Pitch% set-point: AX1 S1i2: 4-20mA (+term5, -term4) Input lost if below 3.5mA	🔒	See similar VS profile for VI001

VI-setup profiles (VS) for VI013

VS No.	Name	Description	Status	Notes
5	VS05 DX-RPM	**DX-RPM Pickup, RTC - Pitch** Required: AX1 in Slot 1 RPM/RPM%: CAN TPDO/(XDi-net) RPM/RPM% set-point: AX1 S1i1: 4-20mA (+term9, -term8) Pitch%: CAN TPDO/(XDi-net) Pitch% set-point: AX1 S1i2: 4-20mA (+term5, -term4) Input lost if below 3.5mA		See similar VS profile for VI001

VI 014 **TT AFT PITCH**



Description : **THRUSTER AFT PITCH**

Tunnel Thruster Pitch ±110%
Actual Pitch range ±200% with digital readout
Tunnel Thruster RPM 0...110%
Actual RPM range ±3276 with digital readout

All with set point

Status :

VI Notes : Upper bargraph is Green to starboard and red to portside.
Lower bargraph is green.

VI-setup profiles (VS) for VI014

VS No.	Name	Description	Status	Notes
1	VS01 XDi-net	**XDi-net** All input data received via XDi-net Pitch%: XDi-net Pitch% set-point: XDi-net RPM/RPM%: XDi-net RPM/RPM% set-point: XDi-net		See similar VS profile for VI001

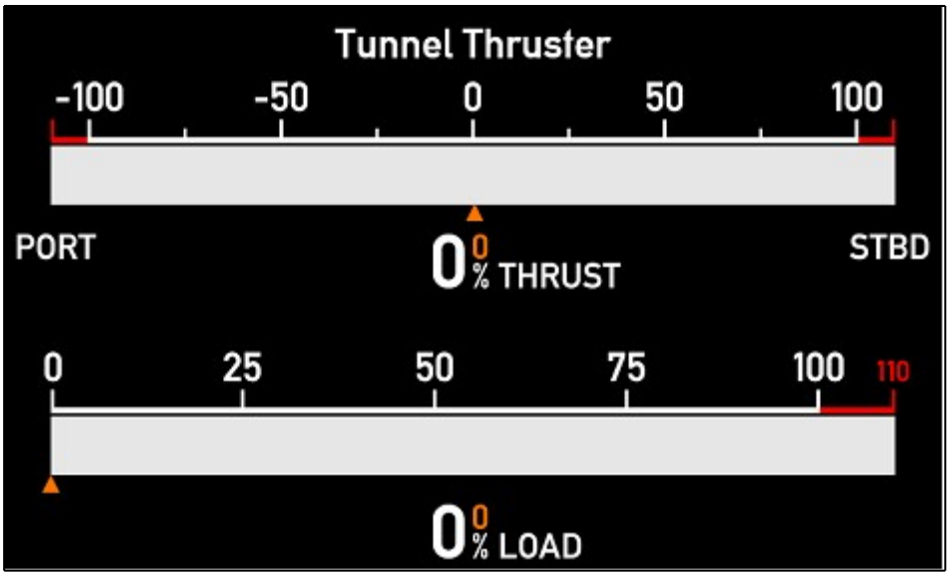
VI-setup profiles (VS) for VI014

VS No.	Name	Description	Status	Notes
2	VS02 TPDO	**TPDO** or XDi-net All input data received via TPDO Pitch%: TPDO (XDi-net) Pitch% set-point: TPDO (XDi-net) RPM/RPM%: TPDO (XDi-net) RPM/RPM% set-point: TPDO (XDi-net)	🔒	See similar VS profile for VI001
3	VS03 Analogue	**Analogue system** Required: AX1 in Slot 1 and 2 RPM/RPM%: AX1 S1i1: 4-20mA (+term9, -term8) RPM/RPM% set-point: AX1 S2i1: 4-20mA (+term9, -term8) Pitch%: AX1 S1i2: 4-20mA (+term5, -term4) Pitch% set-point: AX1 S2i2: 4-20mA (+term5, -term4) Input lost if below 3.5mA	🔒	See similar VS profile for VI001
4	VS04 DX-RPM	**DX-RPM Pickup, analogue Pitch** Required: AX1 in Slot 1, DX1 in Slot 2 RPM/RPM%: DX1 S2i1: (+term11, -term10) RPM/RPM% set-point: CAN TPDO/(XDi-net) Pitch%: AX1 S1i1: 4-20mA (+term9, -term8) Pitch% set-point: AX1 S1i2: 4-20mA (+term5, -term4) Input lost if below 3.5mA	🔒	See similar VS profile for VI001

VI-setup profiles (VS) for VI014

VS No.	Name	Description	Status	Notes
5	VS05 DX-RPM	**DX-RPM Pickup, RTC - Pitch** Required: AX1 in Slot 1 RPM/RPM%: CAN TPDO/(XDi-net) RPM/RPM% set-point: AX1 S1i1: 4-20mA (+term9, -term8) Pitch%: CAN TPDO/(XDi-net) Pitch% set-point: AX1 S1i2: 4-20mA (+term5, -term4) Input lost if below 3.5mA		See similar VS profile for VI001

VI 015 **TT FWD THRUST**



Description : **THRUSTER FWD THRUST**

Tunnel Thruster ±110%
Actual Thrust range ±200% with digital readout
Tunnel Thruster Load 0...110%
Actual Load ±200% with digital readout

All with set point

Status :

VI Notes : Upper bargraph is Green to starboard and red to portside.
Lower bargraph is green.
Indication of thrust is not covered by MED Annex A.1.

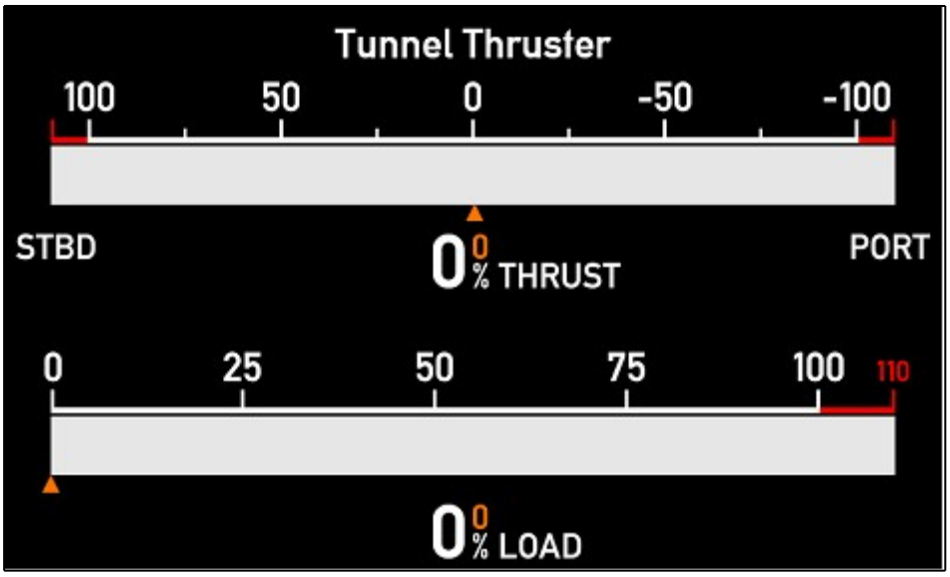
VI-setup profiles (VS) for VI015

VS No.	Name	Description	Status	Notes
1	VS01 XDi-net	**XDi-net** All input data received via XDi-net Thrust%: XDi-net Thrust% set-point: XDi-net Load%: XDi-net Load% set-point: XDi-net		See similar VS profile for VI001

VI-setup profiles (VS) for VI015

VS No.	Name	Description	Status	Notes
2	VS02 TPDO	**TPDO** or XDi-net All input data received via TPDO Thrust%: TPDO (XDi-net) Thrust% set-point: TPDO (XDi-net) Load%: TPDO (XDi-net) Load% set-point: TPDO (XDi-net)	🔒	See similar VS profile for VI001
3	VS03 Analogue	**Analogue system** Required: AX1 in Slot 1 and 2 Thrust%: AX1 S1i1: 4-20mA (+term9, -term8) Thrust% set-point: AX1 S2i1: 4-20mA (+term9, -term8) Load%: AX1 S1i2: 4-20mA (+term5, -term4) Load% set-point: AX1 S2i2: 4-20mA (+term5, -term4) Input lost if below 3.5mA	🔒	See similar VS profile for VI001

VI 016 **TT AFT THRUST**



Description : **THRUSTER AFT THRUST**

Tunnel Thruster ±110%
Actual Thrust range ±200% with digital readout
Tunnel Thruster Load 0...110%
Actual Load ±200% with digital readout

All with set point

Status :

VI Notes : Upper bargraph is Green to starboard and red to portside.
Lower bargraph is green.
Indication of thrust is not covered by MED Annex A.1.

VI-setup profiles (VS) for VI016

VS No.	Name	Description	Status	Notes
1	VS01 XDi-net	**XDi-net** All input data received via XDi-net Thrust%: XDi-net Thrust% set-point: XDi-net Load%: XDi-net Load% set-point: XDi-net		See similar VS profile for VI001

VI-setup profiles (VS) for VI016

VS No.	Name	Description	Status	Notes
2	VS02 TPDO	**TPDO** or XDi-net All input data received via TPDO Thrust%: TPDO (XDi-net) Thrust% set-point: TPDO (XDi-net) Load%: TPDO (XDi-net) Load% set-point: TPDO (XDi-net)	🔒	See similar VS profile for VI001
3	VS03 Analogue	**Analogue system** Required: AX1 in Slot 1 and 2 Thrust%: AX1 S1i1: 4-20mA (+term9, -term8) Thrust% set-point: AX1 S2i1: 4-20mA (+term9, -term8) Load%: AX1 S1i2: 4-20mA (+term5, -term4) Load% set-point: AX1 S2i2: 4-20mA (+term5, -term4) Input lost if below 3.5mA	🔒	See similar VS profile for VI001