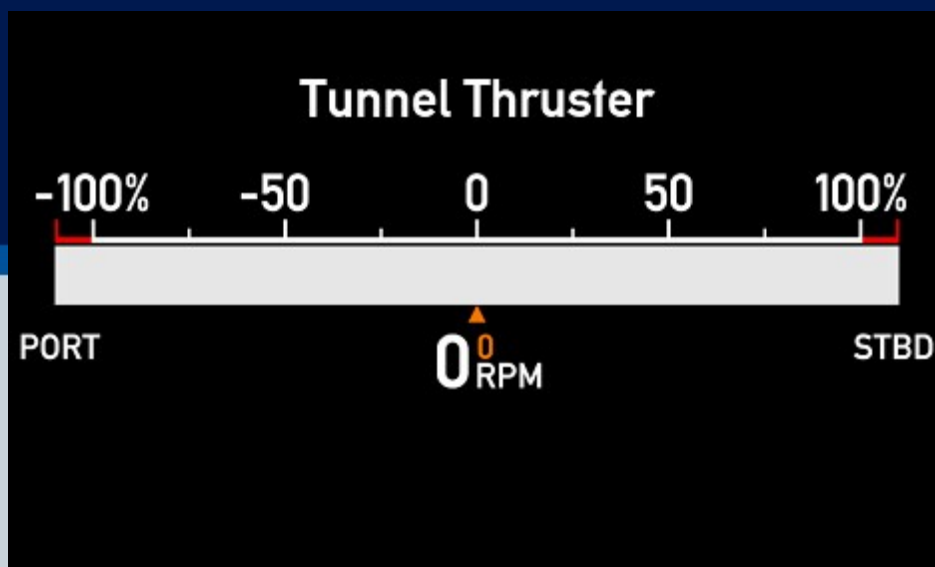




XDi 144/192 Dual

Tunnel Thruster



Library owner: DEIF STANDARD LIB

Library number: 11

Library version: 2009

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Library description :

This XDi Dual library contains a selection of tunnel thruster 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 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.

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



Library Specification

Library owner no. : 000001
Library owner name : DEIF STANDARD LIB
Product type : XDi 144/192
Performance class : Dual
Library number : 11
Library name : Tunnel Thruster
Library orientation : Landscape
Library status : Released & Locked
Library version : 2009

Last changed : 08-02-2023 15:59:53

Library default settings :

180 display rotation : False
CAN NodeID : 30

Library notes :

08-02-2023/MAP, 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.

 14-07-2022/JOL, Ver.2008: PP01 and PP06 is updated with front button option.

.....
 06-01-2022/JOL, Ver.2007: Added VI017, 018 (RPM/kW) and VI019, 020 (RPM/MW)

.....
 08-12-2021/JOL, Ver.2006: Library is moved to XDi main software platform 2. AX1 analogue input lost detection is added to all relevant VS profiles. PP04 DX1 setup issue in Colour shift is corrected.

.....
 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/Front	<p>Dim XDi-net/Front button Dimmer via XDi-net (CAN) and/or via front buttons, Requires option: Front frame with buttons.</p> <p>Default settings: XDi-net active Dimmer group 1 Dimming via XDi-net Auto Day/Night Shift at 70% Monitoring supply voltage 1</p>		CANbus and Dimmer settings can be changed from XDi menu
2	PP02 Analogue	<p>Analogue Dimmer</p> <p>Required: AX1 in Slot 1</p> <p>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>		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	<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>		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	<p>Digital Dimmer</p> <p>Required: DX1 in Slot 1</p> <p>Digital input 1 up (+term 11,- term 10) Digital input 2 down (+term 8,- term 7)</p> <p>Simultaneous activation of IN1 and IN2 for Day/Night Shift</p> <p>Default settings:</p> <p>Dimmer group 1 Shared on XDi-net Monitoring supply voltage 1</p>		Digital input configuration can be changed from menu.
5	PP05 Analogue	<p>Analogue Dimmer Local</p> <p>Required: AX1 in Slot 1</p> <p>Dimmer potmeter (+ term 3, - term 1, wiper term 2) Can be reconfigured to voltage input</p> <p>Default settings:</p> <p>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</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 Fixed	<p>ECR Fixed Dimmer</p> <p>Dimmer level can be adjusted via front buttons Option: Front frame with buttons can be used.</p> <p>To extend backlight life, fixed backlight should be below 90%</p> <p>Default settings:</p> <p>XDi-net active Dimmer group: Local Auto Day/Night Shift at 70% Monitoring supply voltage 1</p>		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.

Timestamp 08-02-2023 15:59:56

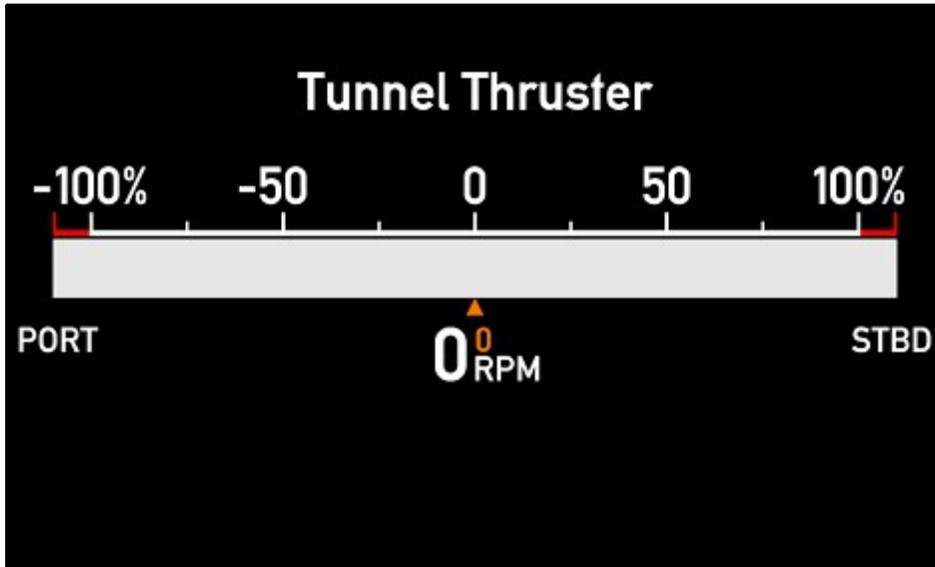
VI No.	Name	VI-setup profiles (VS)	Approvals	Status
001	TT FWD RPM	5		
002	TT AFT RPM	5		
003	TT FWD PITCH	4		
004	TT AFT PITCH	4		
005	TT FWD THRUST	3		
006	TT AFT THRUST	3		
007	Reserved	1		
008	Reserved	1		
009	Reserved	1		
010	Reserved	1		
011	TT FWD RPM	4		
012	TT AFT RPM	4		
013	TT FWD PITCH	4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

VI No.	Name	VI-setup profiles (VS)	Approvals	Status
020	TT AFT RPM,MW	4	 	

 Approvals only apply for XDi 192.

VI 001

TT FWD RPM



Description : THRUSTER FWD RPM




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

Status : All with set point





VI Notes : Bargraph is green to Starboard and red to Portside

VI-setup profiles (VS) for VI001

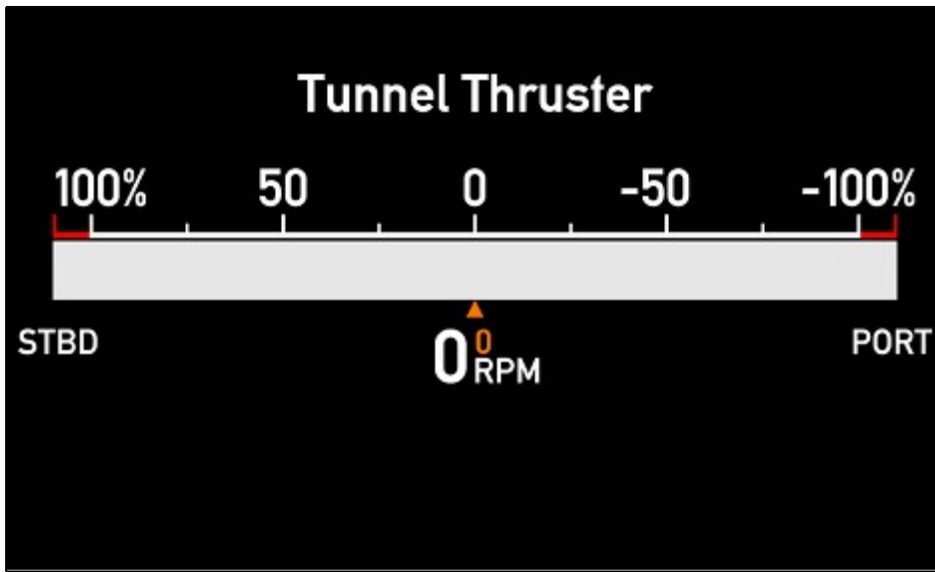
VS No.	Name	Description	Status	Notes
1	VS01 XDi-net	<p>All input via XDi-net</p> <p>RPM/RPM%: XDi-net</p> <p>RPM/RPM% set-point: XDi-net</p>		<p>The XDi-net profile is used when the indicator is a repeater, receiving data from other XDi units or from a CAN controller providing data in XDi-net format.</p> <p>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.</p> <p>Support for NX1 NMEA output module.</p>
2	VS02 TPDO	<p>All input via TPDO or XDi-net</p> <p>RPM/RPM%: TPDO (XDi-net)</p> <p>RPM/RPM% set-point: TPDO (XDi-net)</p>		<p>TPDO COBID can be changed to any valid TPDO or RPDO COBID via the XDi installation menu.</p> <p>TPDO input can be scaled from menu.</p> <p>This profile can also be used for XDi-net input, if a combination of TPDO and XDi-net is used.</p> <p>TPDO input can be disabled to run pure XDi-net.</p> <p>Support for NX1 NMEA output module.</p>
3	VS03 Analogue	<p>Analogue system Required: AX1 in Slot 1</p> <p>RPM/RPM%: AX1 S1i1: 4-20mA (+term9, -term8)</p> <p>RPM/RPM% set-point: AX1 S1i2: 4-20mA (+term5, -term4)</p> <p>Input lost if below 3.5mA</p>		<p>Analogue input type and scaling can be changes from XDi installation menu.</p> <p>Support for NX1 NMEA output module.</p>

VI-setup profiles (VS) for VI001

VS No.	Name	Description	Status	Notes
4	VS04 DX-RPM	DX-RPM Pickup 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%: CAN TPDO (XDi-net) RPM/RPM% set-point: AX1 S1i2: 4-20mA (+term5, -term4) Input lost if below 3.5mA		Support for NX1 NMEA output module.

VI 002

TT AFT RPM



Description : THRUSTER AFT RPM

Tunnel Thruster RPM $\pm 110\%$
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

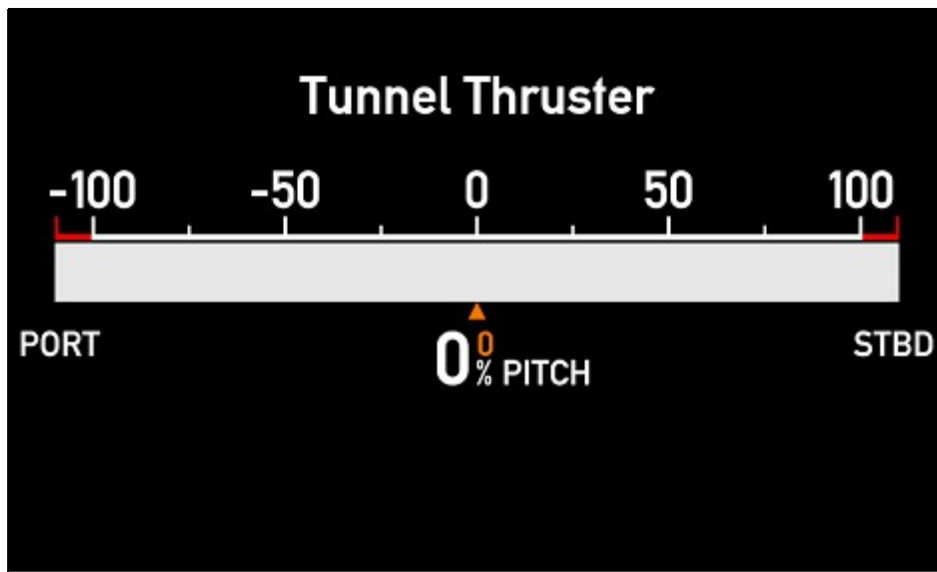
VS No.	Name	Description	Status	Notes
1	VS01 XDi-net	All input via XDi-net RPM/RPM%: XDi-net RPM/RPM% set-point: XDi-net		See similar VS profile for VI001
2	VS02 TPDO	TPDO or XDi-net RPM/RPM%: TPDO (XDi-net) RPM/RPM% set-point: TPDO (XDi-net)		See similar VS profile for VI001

VI-setup profiles (VS) for VI002

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

VI 003

TT FWD PITCH



Description : THRUSTER FWD PITCH

Tunnel Thruster Pitch $\pm 110\%$
Actual Pitch range $\pm 200\%$ 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

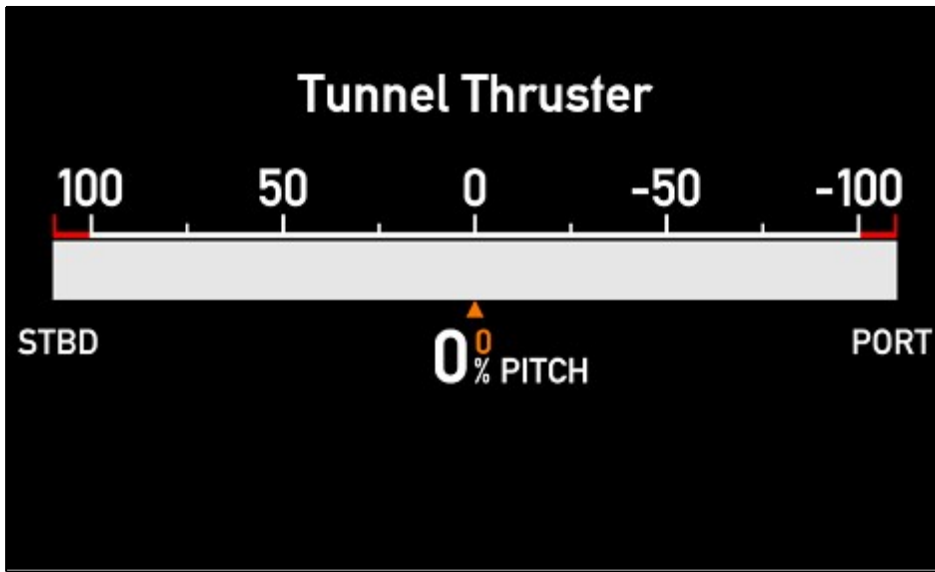
VS No.	Name	Description	Status	Notes
1	VS01 XDi-net	All input via XDi-net Pitch%: XDi-net Pitch% set-point: XDi-net		See similar VS profile for VI001
2	VS02 TPDO	All input via TPDO or XDi-net Pitch%: TPDO (XDi-net) Pitch% set-point: TPDO (XDi-net)		See similar VS profile for VI001

VI-setup profiles (VS) for 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 setpoint Required: AX1 in Slot 1 Pitch%: TPDO RTC/(XDi-net) Pitch% set-point: AX1 S1i2: 4-20mA (+term9, -term8) Input lost if below 3.5mA		See similar VS profile for VI001

VI 004

TT AFT PITCH



Description : THRUSTER AFT PITCH

Tunnel Thruster Pitch $\pm 110\%$
Actual Pitch range $\pm 200\%$ 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

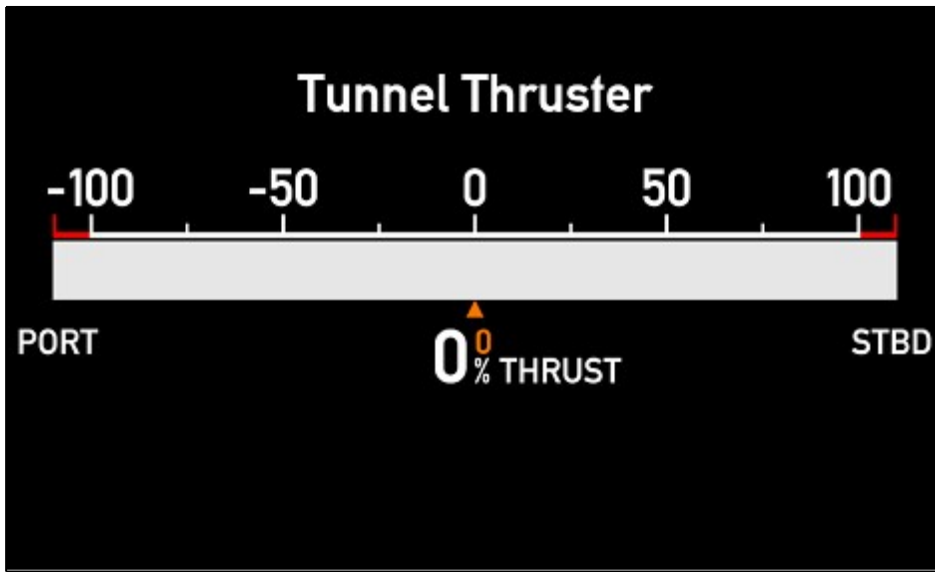
VS No.	Name	Description	Status	Notes
1	VS01 XDi-net	All input via XDi-net Pitch%: XDi-net Pitch% set-point: XDi-net		See similar VS profile for VI001
2	VS02 TPDO	All input via TPDO or XDi-net Pitch%: TPDO (XDi-net) Pitch% set-point: TPDO (XDi-net)		See similar VS profile for VI001

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%: TPDO RTC/(XDi-net) Pitch% set-point: AX1 S1i2: 4-20mA (+term9, -term8) Input lost if below 3.5mA		See similar VS profile for VI001

VI 005

TT FWD THRUST



Description : THRUSTER FWD THRUST

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

All with set point

Status :




VI Notes : Bargraph is green to Starboard and red to Portside

VI-setup profiles (VS) for VI005

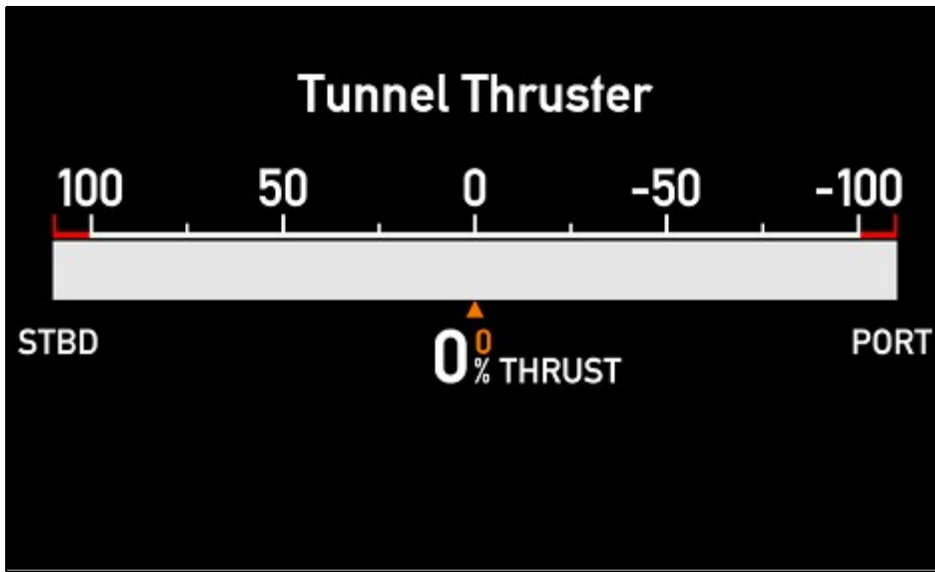
VS No.	Name	Description	Status	Notes
1	VS01 XDi-net	All input via XDi-net Thrust%: XDi-net Thrust% set-point: XDi-net		See similar VS profile for VI001
2	VS02 TPDO	All input via TPDO or XDi-net Pitch%: TPDO (XDi-net) Pitch% set-point: TPDO (XDi-net)		See similar VS profile for VI001

VI-setup profiles (VS) for 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

VI-setup profiles (VS) for VI006

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

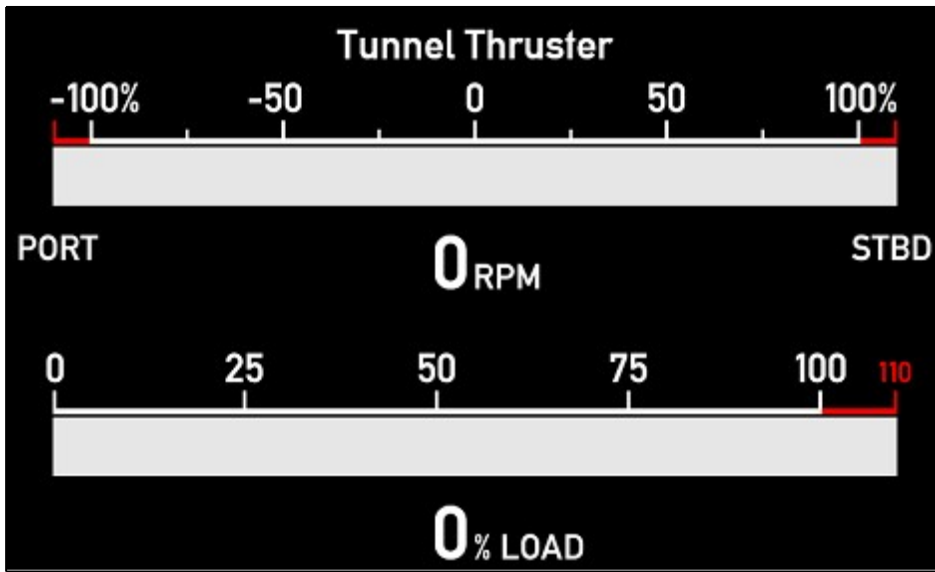
VI Notes :

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

Status :





VI Notes : Upper bargraph is green to Starboard and red to Portside
 Lower bargraph is green

VI-setup profiles (VS) for VI011

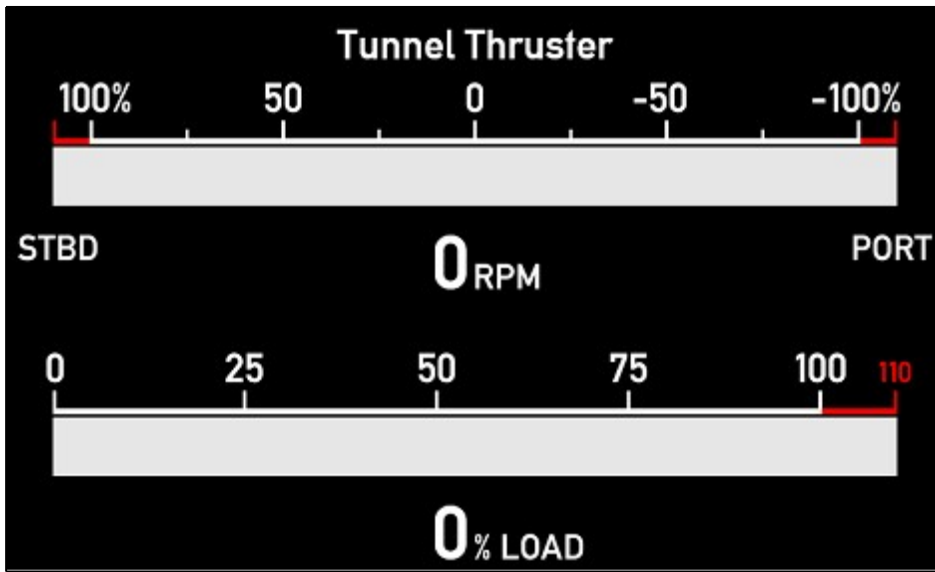
VS No.	Name	Description	Status	Notes
1	VS01 XDi-net	All input via XDi-net RPM/RPM%: XDi-net Load%: XDi-net		See similar VS profile for VI001
2	VS02 TPDO	All input via TPDO or XDi-net RPM/RPM%: TPDO (XDi-net) Load%: TPDO (XDi-net)		See similar VS profile for VI001

VI-setup profiles (VS) for VI011

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

VI 012

TT AFT RPM



Description : THRUSTER AFT RPM

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



Status :

VI Notes : Upper bargraph is green to Starboard and red to Portside
 Lower bargraph is green

VI-setup profiles (VS) for VI012

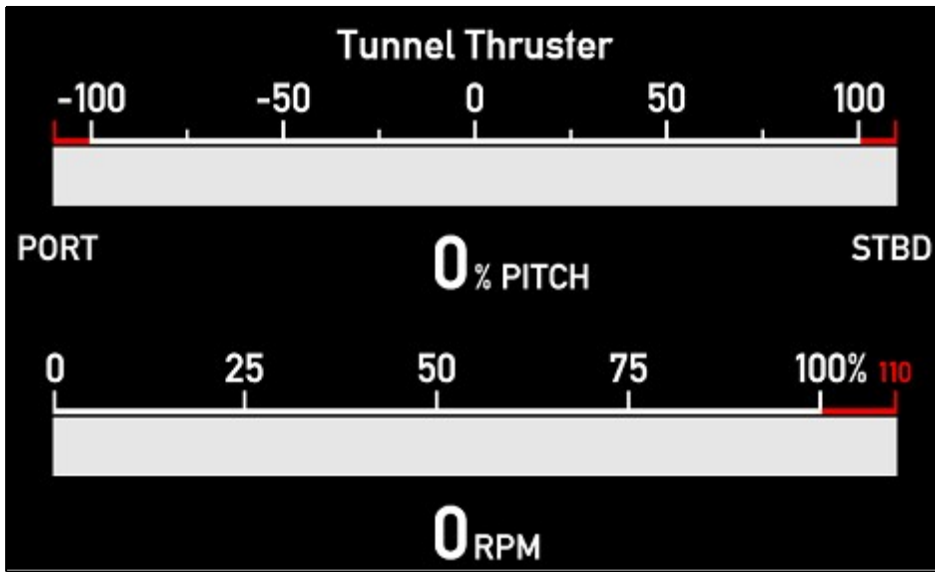
VS No.	Name	Description	Status	Notes
1	VS01 XDi-net	All input via XDi-net RPM/RPM%: XDi-net Load%: XDi-net		See similar VS profile for VI001
2	VS02 TPDO	All input via TPDO or XDi-net RPM/RPM%: TPDO (XDi-net) Load%: TPDO (XDi-net)		See similar VS profile for VI001

VI-setup profiles (VS) for VI012

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

VI 013

TT FWD PITCH



Description : THRUSTER FWD PITCH

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



Status :

VI Notes : Upper bargraph is green to Starboard and red to Portside
 Lower bargraph is green

VI-setup profiles (VS) for VI013

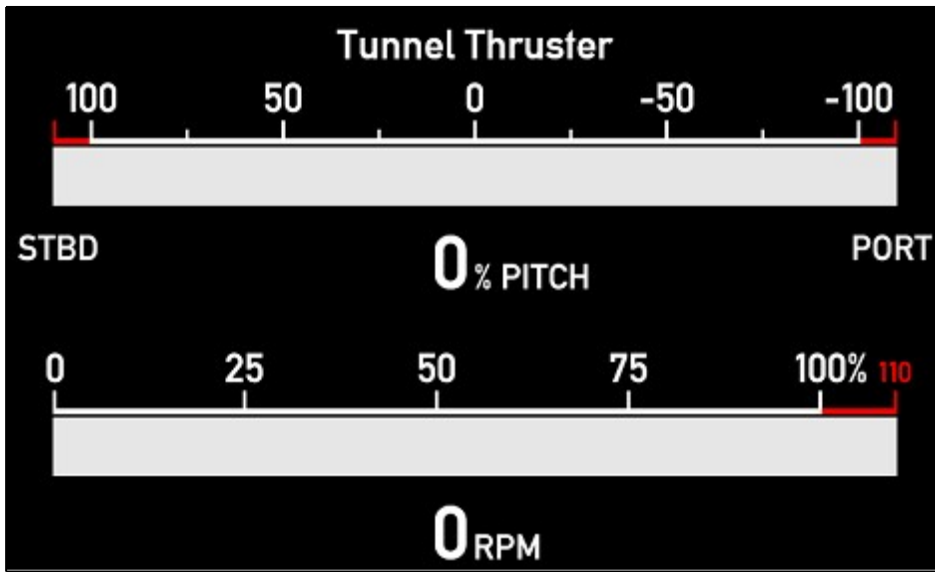
VS No.	Name	Description	Status	Notes
1	VS01 XDi-net	All input via XDi-net or XDi-net Pitch%: XDi-net RPM/RPM%: XDi-net		See similar VS profile for VI001
2	VS02 TPDO	All input via TPDO or XDi-net Pitch%: TPDO (XDi-net) RPM/RPM%: TPDO (XDi-net)		See similar VS profile for VI001

VI-setup profiles (VS) for VI013

VS No.	Name	Description	Status	Notes
3	VS03 Analogue	Analogue system Required: AX1 in Slot 1 RPM/RPM%: AX1 S1i1: 4-20mA (+term9, -term8) Pitch%: AX1 S1i2: 4-20mA (+term5, -term4) Input lost if below 3.5mA		See similar VS profile for VI001
4	VS04 DX-RPM Pickup	Analogue Pitch Required: AX1 in Slot 1, DX1 in Slot 2 RPM/RPM%: DX1 S2i1: (+term11, -term10) Pitch%: AX1 S1i1: 4-20mA (+term9, -term8) Input lost if below 3.5mA		See similar VS profile for VI001

VI 014

TT AFT PITCH



Description : THRUSTER AFT PITCH

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

Status :





VI Notes : Upper bargraph is green to Starboard and red to Portside
 Lower bargraph is green

VI-setup profiles (VS) for VI014

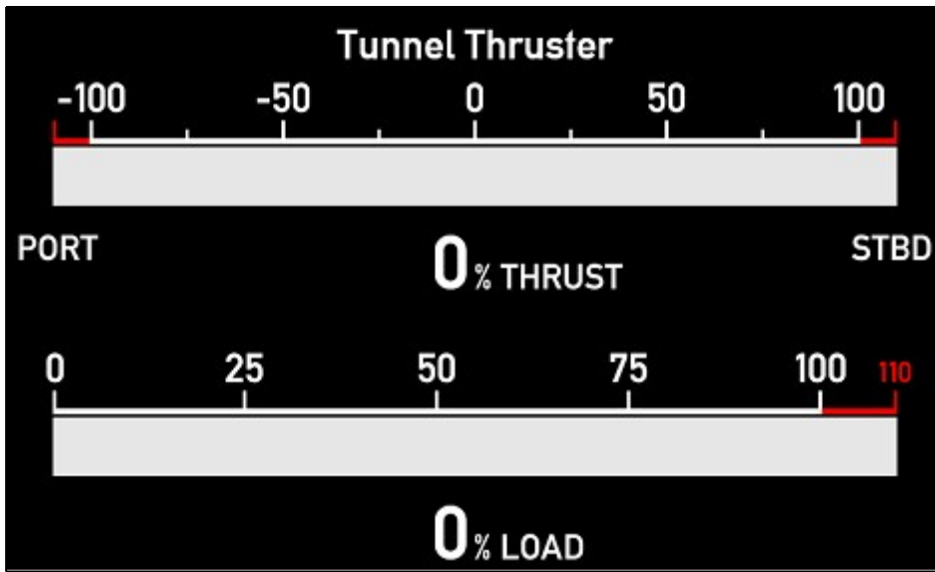
VS No.	Name	Description	Status	Notes
1	VS01 XDi-net	All input via XDi-net Pitch%: XDi-net RPM/RPM%: XDi-net		See similar VS profile for VI001
2	VS02 TPDO	All input via TPDO or XDi-net Pitch%: TPDO (XDi-net) RPM/RPM%: TPDO (XDi-net)		See similar VS profile for VI001

VI-setup profiles (VS) for VI014

VS No.	Name	Description	Status	Notes
3	VS03 Analogue	Analogue system Required: AX1 in Slot 1 RPM/RPM%: AX1 S1i1: 4-20mA (+term9, -term8) Pitch%: AX1 S1i2: 4-20mA (+term5, -term4) Input lost if below 3.5mA		See similar VS profile for VI001
4	VS04 DX-RPM Pickup	Analogue Pitch Required: AX1 in Slot 1 and DX1 in Slot 2 RPM/RPM%: DX1 S2i1: (+term11, -term10) Pitch%: AX1 S1i1: 4-20mA (+term9, -term8) 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


Status :

VI Notes : Upper bargraph is green to Starboard and red to Portside
 Lower bargraph is green

VI-setup profiles (VS) for VI015

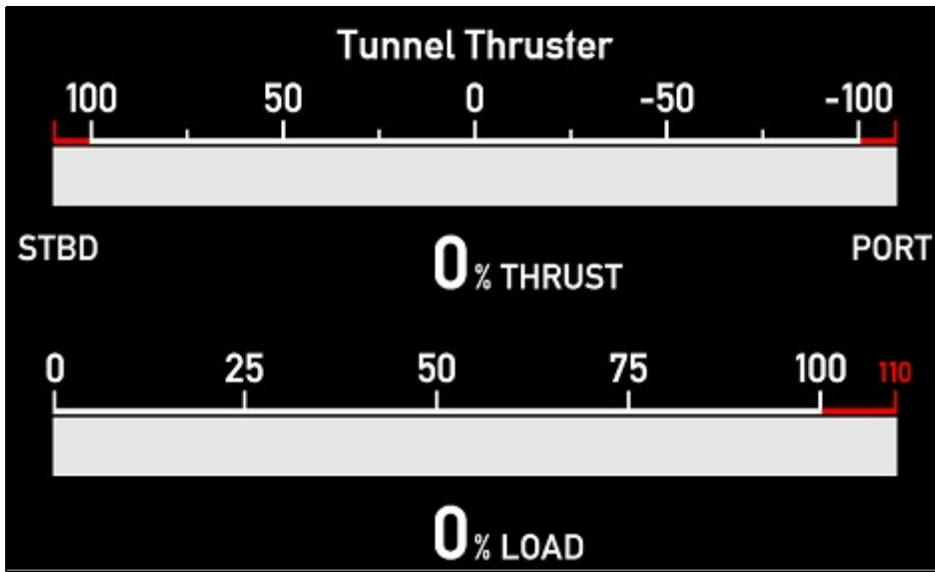
VS No.	Name	Description	Status	Notes
1	VS01 XDi-net	All input via XDi-net Thrust%: XDi-net Load%: XDi-net		See similar VS profile for VI001
2	VS02 TPDO	All input via TPDO or XDi-net Thrust%: TPDO (XDi-net) Load%: TPDO (XDi-net)		See similar VS profile for VI001

VI-setup profiles (VS) for VI015

VS No.	Name	Description	Status	Notes
3	VS03 Analogue	Analogue system Required: AX1 in Slot 1 Thrust%: AX1 S1i1: 4-20mA (+term9, -term8) Load%: AX1 S1i2: 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

Status :




VI Notes : Upper bargraph is green to Starboard and red to Portside
 Lower bargraph is green

VI-setup profiles (VS) for VI016

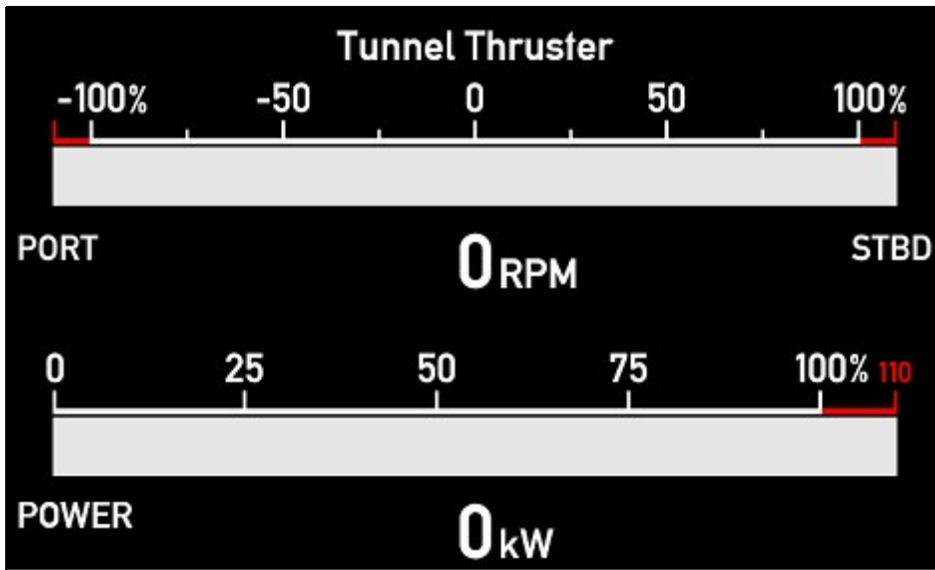
VS No.	Name	Description	Status	Notes
1	VS01 XDi-net	All input via XDi-net Thrust%: XDi-net Load%: XDi-net		See similar VS profile for VI001
2	VS02 TPDO	All input via TPDO or XDi-net Thrust%: TPDO (XDi-net) Load%: TPDO (XDi-net)		See similar VS profile for VI001

VI-setup profiles (VS) for VI016

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

VI 017

TT FWD RPM,kW



Description : TT FWD RPM/PWR/kW

Tunnel Thruster RPM $\pm 110\%$
 Digital RPM readout max. range $\pm 3276\text{RPM}$
 Tunnel Thruster Power 0...110%
 Digital Power readout max. range 0-32500kW
 Selectable headline and Power% label

Status :






VI Notes : The label Power can be changed to Load

VI-setup profiles (VS) for VI017

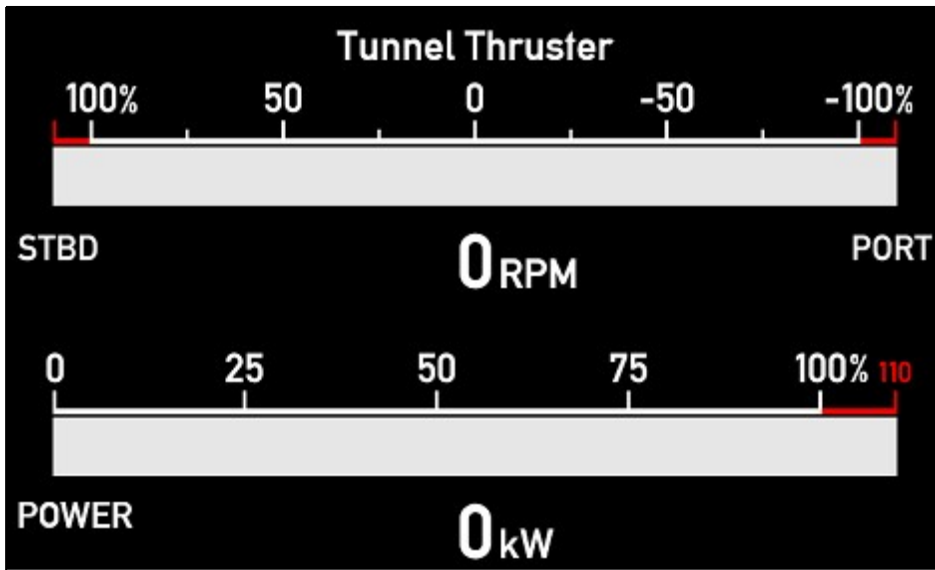
VS No.	Name	Description	Status	Notes
1	VS01 XDi-net	<p>All input via XDi-net XDi-net data 16bit signed</p> <p>RPM: 0x3081:02 RPM%: 0x3091:02 (1000=100.0RPM, resolution 0.1)</p> <p>POWER%: 0x30B1:02 (1000=100.0%, resolution 0.1)</p> <p>POWER kW: 0x30E1:02 (1000=1000kW, resolution 1)</p>		

VI-setup profiles (VS) for VI017

VS No.	Name	Description	Status	Notes
2	VS02 TPDO	<p>All input via TPDO or XDi-net 16bit signed TPDO1 / XDi-net RPM: COBID 0x183 / 0x3081:02 RPM%: Calculated from 0x183 / 0x3091:02 Default +/-100.0% = +/-2000.0RPM (1000=100.0, resolution 0.1)</p> <p>POWER%: COBID 0x185 / 0x30B1:02 (1000=100.0%, resolution 0.1)</p> <p>POWER kW: COBID 0x18C / 0x30E1:02 (1000=1000kW, resolution 1)</p>		
3	VS03 Analogue	<p>Analogue system Required: AX1 in Slot 1</p> <p>RPM/RPM%: AX1 S1i1: 4-20mA (+term9, -term8) Default: 4mA = -1980.0RPM, 12mA = 0RPM 20mA = 1980.0 RPM and +/-100% = +/-1800.0RPM</p> <p>Power%/kW: AX1 S1i2: 4-20mA (+term5, -term4) Default: 4mA = 0kW, 20mA = 2200 kW and +100% = 2000 kW</p> <p>Input lost if below 3.5mA</p>		The analogue input can be adjusted from XDi menu. The input type can be changed from mA to voltage. If you change input type or input range, remember to change the analogue input min/max error range values. Default they are set to 3500µA and 21000µA. (in voltage mode input and error values are in mV)
4	VS04 DX-RPM	<p>Digital/Analogue Required: AX1 in Slot 1 and DX1 in Slot 2</p> <p>RPM/RPM%: DX1, S2i1: (+term11, -term10) S2i2: (+term8, -term7) Default 1000 pulses per 100 revolutions +/-100% = +/-2000.0 RPM</p> <p>Power%/kW: AX1, S1i2: 4-20mA (+term5, -term4) Default: 4mA = 0kW, 20mA = 2200 kW and +100% = 2000 kW Input lost if below 3.5mA</p>		Default RPM and RPM% input scaling can be changes from XDi installation menu. The analogue input can be adjusted from XDi menu. The input type can be changed from mA to voltage. If you change input type or input range, remember to change the analogue input min/max error range values. Default they are set to 3500µA and 21000µA. (in voltage mode input and error values are in mV)

VI 018

TT AFT RPM,kW



Description : TT AFT RPM/PWR/kW

Tunnel Thruster RPM $\pm 110\%$
 Digital RPM readout max. range $\pm 3276\text{RPM}$
 Tunnel Thruster Power 0...110%
 Digital Power readout max. range 0-32500kW
 Selectable headline and Power% label

Status :






VI Notes : The label Power can be changed to Load

VI-setup profiles (VS) for VI018

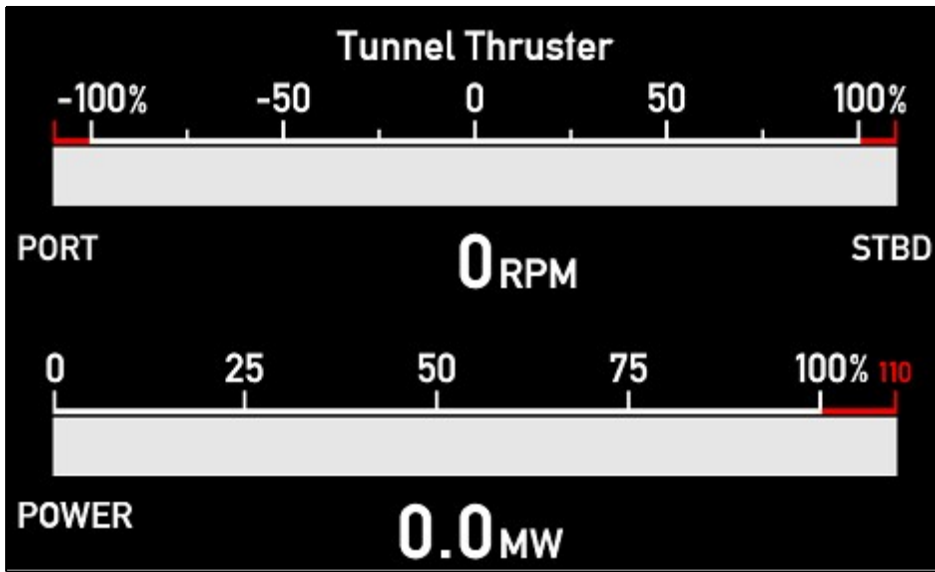
VS No.	Name	Description	Status	Notes
1	VS01 XDi-net	<p>All input via XDi-net XDi-net data 16bit signed</p> <p>RPM: 0x3081:02 RPM%: 0x3091:02 (1000=100.0RPM, resolution 0.1)</p> <p>POWER%: 0x30B1:02 (1000=100.0%, resolution 0.1)</p> <p>POWER kW: 0x30E1:02 (1000=1000kW, resolution 1)</p>		

VI-setup profiles (VS) for VI018

VS No.	Name	Description	Status	Notes
2	VS02 TPDO	<p>All input via TPDO or XDi-net 16bit signed TPDO1 / XDi-net RPM: COBID 0x183 / 0x3081:02 RPM%: Calculated from 0x183 / 0x3091:02 Default +/-100.0% = +/-2000.0RPM (1000=100.0, resolution 0.1)</p> <p>POWER%: COBID 0x185 / 0x30B1:02 (1000=100.0%, resolution 0.1)</p> <p>POWER kW: COBID 0x18C / 0x30E1:02 (1000=1000kW, resolution 1)</p>		
3	VS03 Analogue	<p>Analogue system Required: AX1 in Slot 1</p> <p>RPM/RPM%: AX1 S1i1: 4-20mA (+term9, -term8) Default: 4mA = -1980.0RPM, 12mA = 0RPM 20mA = 1980.0 RPM and +/-100% = +/-1800.0RPM</p> <p>Power%/kW: AX1 S1i2: 4-20mA (+term5, -term4) Default: 4mA = 0kW, 20mA = 2200 kW and +100% = 2000 kW</p> <p>Input lost if below 3.5mA</p>		
4	VS04 DX-RPM	<p>Digital/Analogue Required: AX1 in Slot 1 and DX1 in Slot 2</p> <p>RPM/RPM%: DX1, S2i1: (+term11, -term10) S2i2: (+term8, -term7) Default 1000 pulses per 100 revolutions +/-100% = +/-2000.0 RPM</p> <p>Power%/kW: AX1, S1i2: 4-20mA (+term5, -term4) Default: 4mA = 0kW, 20mA = 2200 kW and +100% = 2000 kW Input lost if below 3.5mA</p>		

VI 019

TT FWD RPM,MW



Description : TT FWD RPM/PWR/MW

Tunnel Thruster RPM $\pm 110\%$
 Digital RPM readout max. range $\pm 3276\text{RPM}$
 Tunnel Thruster Power 0...110%
 Digital Power readout max. range 0-999.9MW
 Selectable headline and Power% label

Status :






VI Notes :

VI-setup profiles (VS) for VI019

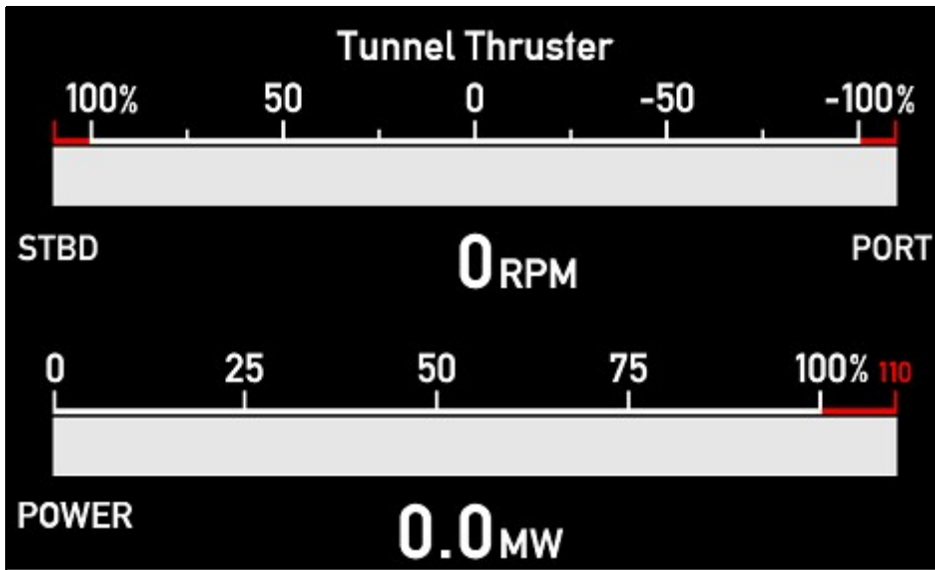
VS No.	Name	Description	Status	Notes
1	VS01 XDi-net	<p>All input via XDi-net XDi-net data 16bit signed</p> <p>RPM: 0x3081:02 RPM%: 0x3091:02 (1000=100.0RPM, resolution 0.1)</p> <p>POWER%: 0x30B1:02 (1000=100.0%, resolution 0.1)</p> <p>POWER MW: 0x30D1:02 (1000=100.0MW, resolution 0.1)</p>		

VI-setup profiles (VS) for VI019

VS No.	Name	Description	Status	Notes
2	VS02 TPDO	<p>All input via TPDO or XDi-net 16bit signed TPDO1 / XDi-net RPM: COBID 0x183 / 0x3081:02 RPM%: Calculated from 0x183 / 0x3091:02 Default +/-100.0% = +/-2000.0RPM (1000=100.0, resolution 0.1)</p> <p>POWER%: COBID 0x185 / 0x30B1:02 (1000=100.0%, resolution 0.1)</p> <p>POWER MW: COBID 0x18C / 0x30D1:02 (1000=100.0MW, resolution 1)</p>		
3	VS03 Analogue	<p>Analogue system Required: AX1 in Slot 1</p> <p>RPM/RPM%: AX1 S1i1: 4-20mA (+term9, -term8) Default: 4mA = -1980.0RPM, 12mA = 0RPM 20mA = 1980.0 RPM and +/-100% = +/-1800.0RPM</p> <p>Power%/MW: AX1 S1i2: 4-20mA (+term5, -term4) Default: 4mA = 0MW, 20mA = 22.0 MW and +100% = 20.0 MW</p> <p>Input lost if below 3.5mA</p>		
4	VS04 DX-RPM	<p>Digital/Analogue Required: AX1 in Slot 1 and DX1 in Slot 2</p> <p>RPM/RPM%: DX1, S2i1: (+term11, -term10) S2i2: (+term8, -term7) Default 1000 pulses per 100 revolutions +/-100% = +/-2000.0 RPM</p> <p>Power%/MW: AX1, S1i2: 4-20mA (+term5, -term4) Default: 4mA = 0MW, 20mA = 22.0 MW and +100% = 20.0 MW Input lost if below 3.5mA</p>		

VI 020

TT AFT RPM,MW



Description : TT AFT RPM/PWR/MW

Tunnel Thruster RPM $\pm 110\%$
Digital RPM readout max. range $\pm 3276\text{RPM}$
Tunnel Thruster Power 0...110%
Digital Power readout max. range 0-999.9MW
Selectable headline and Power% label

Status :





VI Notes :

VI-setup profiles (VS) for VI020

VS No.	Name	Description	Status	Notes
1	VS01 XDi-net	All input via XDi-net XDi-net data 16bit signed RPM: 0x3081:02 RPM%: 0x3091:02 (1000=100.0RPM, resolution 0.1) POWER%: 0x30B1:02 (1000=100.0%, resolution 0.1) POWER MW: 0x30D1:02 (1000=100.0MW, resolution 0.1)		

VI-setup profiles (VS) for VI020

VS No.	Name	Description	Status	Notes
2	VS02 TPDO	<p>All input via TPDO or XDi-net 16bit signed TPDO1 / XDi-net RPM: COBID 0x183 / 0x3081:02 RPM%: Calculated from 0x183 / 0x3091:02 Default +/-100.0% = +/-2000.0RPM (1000=100.0, resolution 0.1)</p> <p>POWER%: COBID 0x185 / 0x30B1:02 (1000=100.0%, resolution 0.1)</p> <p>POWER MW: COBID 0x18C / 0x30D1:02 (1000=100.0MW, resolution 1)</p>		
3	VS03 Analogue	<p>Analogue system Required: AX1 in Slot 1</p> <p>RPM/RPM%: AX1 S1i1: 4-20mA (+term9, -term8) Default: 4mA = -1980.0RPM, 12mA = 0RPM 20mA = 1980.0 RPM and +/-100% = +/-1800.0RPM</p> <p>Power%/MW: AX1 S1i2: 4-20mA (+term5, -term4) Default: 4mA = 0MW, 20mA = 22.0 MW and +100% = 20.0 MW</p> <p>Input lost if below 3.5mA</p>		
4	VS04 DX-RPM	<p>Digital RPM/Analogue MW Required: AX1 in Slot 1 and DX1 in Slot 2</p> <p>RPM/RPM%: DX1, S2i1: (+term11, -term10) S2i2: (+term8, -term7) Default 1000 pulses per 100 revolutions +/-100% = +/-2000.0 RPM</p> <p>Power%/MW: AX1, S1i2: 4-20mA (+term5, -term4) Default: 4mA = 0MW, 20mA = 22.0 MW and +100% = 20.0 MW Input lost if below 3.5mA</p>	