XPS

Universal High-Performance Motion Controller/Driver

ESP COMPATIBLE

RoHS Compliant

Newport®

Experience | Solutions

Stages Database History

Precision Motion—*Guaranteed*™

Preface

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XPS
Universal High-Performance Motion Controller/Driver

Versions 3.0.x

XPS Stages Database Version: V3.0.6

Version history: September, 19th 2016 (ECO 4552).

- Add new stages on IDL family :
  - Standard configurations with XPS-EDBL for:
  - IDL225-400LM, IDL225-1200LM, IDL280-400LM, IDL280-1200LM, IDL560-450LM
  - LMI configurations with XPS-EDBL for:
  - IDL225-400LM, IDL225-1200LM, IDL280-400LM, IDL280-1200LM, IDL560-450LM

- Modification on RGV160BL configurations for XPS-EDBL :
  - No SmartStageName

XPS Stages Database Version: V3.0.5

Version history: December, 11th 2015 (ECO 4490).

- Add new parameters so the Database is now compatible with the XPS-RL controller.
- Remove obsolete sections (PreFeedForward filter et PostFeedForward filter).
- Add a checksum to verify the integrity of the 'XPS-StageDataBase'file.
- Add a new configuration : DUMMY@DUMMY_STAGE@NO_DRIVER

- Modification of ONE-XY family :
  - HomeSearch.MechanicalZeroAndIndexHomeSearch is replaced by HomeSearch.MinusEndOfRunAndIndexHomeSearch
  - HomeSearchMaximumAcceleration was 100 and is set to 250
  - DriverCutOffFrequency was 300 and is set to 200

  - **ONE-XY@ONE-XY300-X** :
  - ScalingAcceleration was 1605 and is set to 1497
  - AccelerationLimit was 1494 and is set to 1393

- **ONE-XY@ONE-XY300-Y** :
- ScalingAcceleration was 3351 and is set to 3125
- AccelerationLimit was 3118 and is set to 2908

Versions 2.8.x

XPS Stages Database Version: V2.8.12

Version history: December, 11th 2015 (ECO4429).

- Modification of MTN@MTN200PP@XPS-DRV01: SmartStageName was MTN100PP and is set to MTN200PP (Wrong SmartStageName)

XPS Stages Database Version: V2.8.11

Version history: November, 2nd 2015 (ECO4379).

- Add ONE-XY family: ONE-XY60, ONE-XY100, ONE-XY200, ONE-XY300 configurations with DRV02and DRV02-LMI.

XPS Stages Database Version: V2.8.10

Version history: October, 15th 2015 (ECO4370).

- Modification on configurations XPS-DRV03 for MTN100CC, MTN200CC, MTN300CC:
  - ScalingCurrent was 3 and is set to 5
  - CurrentLimit was 3 and is set to 4.9.
- Add IDL family:
  - Standard configurations with XPS-EDBL for:
  - IDL165-200LM, IDL225-300LM IDL225-600LM, IDL280-300LM, IDL280-600LM, IDL560-600LM
  - LMI configurations with XPS-EDBL for:
  - IDL165-200LM, IDL225-300LM IDL225-600LM, IDL280-300LM, IDL280-600LM, IDL560-600LM
  - Standard configuration with XPS-DRV02 for IDL165-200LM@XPS-DRV02
  - LMI configuration with XPS-DRV02 for IDL165-200LM@XPS-DRV02

XPS Stages Database Version: V2.8.9

Version history: June, 25th 2015 (ECO4329).

- Modification on configurations XPS-DRV01 for MTN100CC, MTN200CC, MTN300CC:

  CurrentLimit was 3.0A and is set to 2.9A.
- Modification on configurations XPS-DRV01 for MTN100PPV6, MTN200PPV6 and MTN300PPV6:

  PeakCurrentPerPhase was 1.25A and is set to 1.8A.

XPS Stages Database Version: V2.8.8

Version history: April, 23th 2015 (ECO4306).

- Add MTN100PPV6, MTN200PPV6 and MTN300PPV6 configurations for XPS-DRV01

XPS Stages Database Version: V2.8.7

Version history: February,24th 2015 (ECO4268).

Modifications

- Modification on configurations XPS-DRV01 and XPS-DRV03 for MTN100CC, MTN200CC, MTN300CC:

  VoltageLimit was 38.4V and is set to 45V.

XPS Stages Database Version: V2.8.6

Version history: January,12th 2015 (ECO3478 and ECO4266).

Modifications

- Add configurations: RV@RV120HAHL@XPS-DRV03, RV@RV120HAHL-F@XPS-DRV03

XPS Stages Database Version: V2.8.5

Version history: January 2015 (ECO4237).

Modifications

- Modification on RVS80CC, UTS50CC, UTS100CC, UTS150CC, FMS100CC, FMS200CC, FMS300CC configurations:

  DerivativeFilterCutOffFrequency was 4000 and is set to 1000 Hz and Kd becomes 0.8.

- Add configurations on ‘Piezo’ Family: NPA25-D , NPA50-D, NPA100-D, NPM140-D, NP0140-D, NPO250-D, NPXY100-D-X, NPXY100-D-Y, NPXY100-D-Z, NPXY200-D-X, NPXY200-D-Y, NPXYZ100-D-X, NPXYZ100-D-Y, NPXYZ100-D-Z

XPS Stages Database Version: V2.8.4

Version history: August 2014 (ECO4187).

Modifications

- Modification on NPX200-D / NPX400-D / PSM2-D-X / PSM2-D-Y / PSM2-D-Z configurations:

  DriverLowpassFilter was 0 and is set to 2000

- Replace configurations remove on the V2.8.2

XPS Stages Database Version: V2.8.3

Version history: August 2014 (ECO4174).

Modifications

- Add IMSxx-LM and IMSxx-LM-SA configurations for XPS-EDBL
- Add RGV100HL configurations for XPS-EDBL
- Add RGV160BL configurations for XPS-EDBL

XPS Stages Database Version: V2.8.2

Version history: July 2014 (ECO4171).

Modifications

- Modification on RGV100HL configurations: DerivativeFilterCutOffFrequency was 4000 and is set to 500
- Add MTN100CC, MTN200CC and MTN300CC configurations for XPS-DRV01
- Add MTN100CC, MTN200CC and MTN300CC configurations for XPS-DRV03
- Add MTN100PP, MTN200PP and MTN300PP configurations for XPS-DRV01

XPS Stages Database Version: V2.8.1

Version history: Septembre 2013 (ECO4061).

Modifications

- Delete TRB6PPD and TRB12PPD configurations
- Add TRB6PP, TRB12PP, TRB25PP configurations

XPS Stages Database Version: V2.8.0

Version history: Septembre 2013 (ECO4056).

Modifications

- Update section’s names.
- Remove obsolete configurations.
- Rename "StandardEOREncoderPlug" by "StandardLimitAndHomeEncoderPlug".

Versions 2.7.x

XPS Stages Database Version: V2.7.7

Version history: July 2013 (ECO4043).

Modifications

- Modification on URB100CC configurations (DRV01, DRV01-Spindle, DRV03 and DRV03-Spindle):

  Maximum allowed motor voltage 14.56V to 20V
- Modification on URS50BCC and URS50BPP for spindle configuration: ‘ServitudesType’ become ‘Spindle’

XPS Stages Database Version: V2.7.6

Version history: May 2013 (ECO 4015).

All stages

- Add NPM140-SG driven by DRVP1.
- Add TRB family: TRB6CC, TRB6PPD, TRB12CC, TRB12PPD, TRB25CC, TRB25PPD

Modifications

- Modification on 'EncoderZMPlug = Driver' for RGV100HL configurations.
- Modification on 'EncoderIndexOffset =0' for FMSxxxPPHA configurations.
- Modification of 'Initialization acceleration level' = 25% on ILSxxLM configuration

XPS Stages Database Version: V2.7.5

Version history: April 2013 (ECO 3999).

Not released.

XPS Stages Database Version: V2.7.4

Version history: July 2012 (ECO 3848).

All stages

- Add RGV100HL configurations driven by DRV02.
- Add FMS100PPHA, FMS200PPHA, FMS300PPHA configurations driven by DRV01.

Modifications

- Modification of « DerivativeFilterCutOffFrequency » value for all configurations superior at 4000 and became egal to 4000.

XPS Stages Database Version: V2.7.3

Version history: May, 2012 (ECO 3811).

All stages

- Add NPA50SG-D, NPXY100SG-D-X, NPXY100SG-D-Y, NPXY200SG-D-X, NPXY200SG-D-Y configurations with DRVP1.

XPS Stages Database Version: V2.7.2

Version history: March, 2012 (ECO 3783).

All stages

- Add NPX200-D with DRVP1.

Modifications

- Modification of PSM2-D-X, PSM2-D-Y, and PSM2-D-Z configurations with DRVP1.

XPS Stages Database Version: V2.7.1

Version history: January, 2012 (ECO 3756).

All stages

- Add NPA25SG-D AND NPX400SG-D with DRVP1.
- Add URB100CC configuration for DRV01 and DRV01-Spindle

Modifications

- Modification of the IntegrationTime for all RVxxHAHLT, RVxxHAHLT-F, RVxxHAT and RVxxHAT-F configurations driven by DRV01, DRV03 and DRVM3: new value equal to 3s
- Modification of the DeadBandThreshold for all RVxxHAHLT, RVxxHAHLT-F, RVxxHAT and RVxxHAT-F configurations driven by DRV01, DRV03 and DRVM3: new value equal to 0.

XPS Stages Database Version: V2.7.0

Version history: December, 2011 (ECO 3739).

All stages

- Add PSM2-D-XYZ with DRVP1

Modifications for QNX firm

- **EncoderIndexOffset**: This new option is used for Interpolated and AquadB Encoders
- **EncoderHardInterpolatorErrorCheck**: This new option is used for Interpolated Encoder
- **HomingSensorOffset**: This new option is used for every types of Home search processes, unless CurrentPositionAsHome

Versions 2.6.x

XPS Stages Database Version: V2.6.9

Version history: November 8, 2011 (ECO 3716).

All stages

- Add ZVR-PP-T, ZVR-PP-Z, ZVR-PC-T, ZVR-PC-Z

XPS Stages Database Version: V2.6.8

Version history: October 20, 2011 (ECO 3704).

All stages

- Add IMS800LM-SA, IMS1000LM-SA, IMS1200LM-SA, and IMS800LM, IMS1000LM, IMS1200LM with DRV02 and DRV02-LMI
- Add NPX200SG-D with DRVP1

Modifications

- Modifications on TRA25CC with DRV01: Maximum allowed motor current 1.5A to 0.15 A

XPS Stages Database Version: V2.6.7

Version history: June17, 2011 (ECO 3618).

All stages

- Add URS50BPPV6 with DRV01
- Add LTAHLPPV6 & LTAHSPPV6

Modifications

- Modifications on FMS100PP, FMS200PP, FMS300PP: No encoder and No servo loop with position output
- Modifications on URB100CC: End of Run = +/- 165°

XPS Stages Database Version: V2.6.6

Version history: March 29, 2011.

All stages

- Add FMS100CC, FMS200CC, FMS300CC and FMS100PP,FMS200PP, FMS300PP with DRV01

Modifications

- Modifications on GTS70 et GTS150:
  - Maximum allowed motor voltage 25V to 36V
  - Maximum allowed motor current 2A to 1.6A

XPS Stages Database Version: V2.6.5

Version history: January 24, 2011.

Modifications

- Modify the following error of NPXYZ100SG-D-X,NPXYZ100SG-D-Y,NPXYZ100SG-D-Z
- Add NPA100SG-D, NPO250SG-D,NPX400-D

XPS Stages Database Version: V2.6.4

Version history: December 17, 2010.

Modifications

- Add NPXYZ100SG-D-X,NPXYZ100SG-D-Y,NPXYZ100SG-D-Z

XPS Stages Database Version: V2.6.3

Version history: November 25, 2010.

Modifications

- ILS50HA, ILS100HA, ILS150HA,ILS200HA,ILS250HA with DRV03 in closed loop
- RV350CC-F with DRV03 in closed loop
- RV350CC with DRV03 in closed loop
- RV350HAHLT with DRVM3 in closed loop

XPS Stages Database Version: V2.6.2

Version history: November 23, 2010.

All stages

- Add ILS50HA, ILS100HA, ILS150HA,ILS200HA,ILS250HA with DRV01 and DRV03

Modifications

- Change ILS-LM with ILSLM

Deleted configurations

XPS Stages Database Version: V2.6.1

Version history: September 1, 2010.

All stages

- Add ILS100-LM, ILS200-LM, ILS300-LM
- Add RV120PE-FBV6 RV120PEBV6 (and spindle mode)

Modifications

- Modify the velocity servo loop cut off frequency of RV350HAHLT/RV350HAHLT-F driven by DRV03

  old value 100 Hz to new value 10 Hz
- Modify PID parameters of RV350CC/RV350CC-F driven by DRV03

  KP = 100, KI = 2000, KD=1, Fc=1000

Deleted configurations

XPS Stages Database Version: V2.6.0

Version history: August 19, 2010.

Change of name because of V2.6 firmware release.

No change of the contents.

Versions 2.5.x

XPS Stages Database Version: V2.5.4

Version history: June 25, 2010.

All stages

- Add URS50BCC and URS50BPP (DRV01 and DRV01@Spindle configurations)

Modifications

Deleted configurations

XPS Stages Database Version: V2.5.3

Version history: February 25, 2010.

All stages

- Add DRV03 configuration for TRA12CC
- Add configuration DRV01 for NSA12
- Add configuration DRV03 for LTA-HXP100
- Add configurations DRV03 for URB100CC (Spindle and with EoR)

Modifications

- ILS-CCHA: Modifications of PID parameters (KP = 100, KI = 5000, KD = 0.1) and DerivativeFilterCutOffFrequency = 500
- VP-25AA, VP-25XA, VP-25XL, VP-5ZA: Modifications of ScalingVelocity and VelocityLimit egal to Vmax + 50% for DRV03 configurations

Deleted configurations

XPS Stages Database Version: V2.5.1 & V2.5.2

Not applicable

XPS Stages Database Version: V2.5.0

Version history: June 29, 2009.

Change of name because of V2.5 firmware release.

No change of the contents.

Versions 2.4.x

XPS Stages Database Version: V2.4.3

Version history: ECO released 04, 2009

All stages

- Add DRV03 configurations missing in V2.4.2

Modifications

- TRA6CC and TRA25CC DRV03: ClosedLoopStatus = Closed

Deleted configurations

- RV120HAT Spindle
- TRA12CC DRV01

XPS Stages Database Version: V2.4.2

Version history:

All stages

- PR50CC: HomeSearchTimeOut from 400003 s to 40s
- In “PID with acceleration output” configuration: new parameter “KFeedForwardJerk=0”
- DRV03 Configuration for RV120HAHLT and RV120HAHLT-F
- Modifications of PID parameters (Kp=500, Ki=50) and Servo loop dead band threshold = 2 * resolution for:
  - RV120/160/240/350/HAT
  - RV120/160/240/350/HAT-F
  - RV160/240/350/HAHLT
  - RV160/240/350/HAHLT-F

New stages

- TRA6PPV6, TRA12PPV6 and TRA25PPV6
- Stages with new UE41PPV6 motor (Half becomes full, and Current / 2)
  - MTM100/150/200/250/PE1BV6
  - MTM100/150/200/250/PE.1BV6
  - BGM120/160/PEBV6
  - UZM160PE.05BV6

XPS Stages Database Version: V2.4.1

Version history: Web released 11, 2008

All stages

- TRA6CC and TRA25CC following error changed from 1 to 0.01 mm
- PR50CC and SR50CC encoder resolution changed in spindle mode to be a submultiple of 360 °
- PR50PP and SR50PP displacement per full step changed in spindle mode to be a submultiple of 360 °

New stages

- None

XPS Stages Database Version: V2.4.0

Version history: ECO released 07, 2008

All stages

- MFA-CC and MFA-CCV6
  - travel range changed to 0 – 25 mm
  - PID parameters optimized

New stages

- MFA-PPD with XPS-DRV01 driver board added
- TRA6CC and TR25CC with XPS-DRV01 and XPS-DRV03 driver boards added

- TRA6PPD and TRA25PPD with XPS-DRV01 driver board added
- TRA6PPV6 and TRA25PPV6 with XPS-DRV01 driver board added

Versions 2.3.x

XPS Stages Database Version: V2.3.0

Version history: ECO released 05, 2008

All stages

- Missing closed loop status parameter for IMSxxV stages corrected

New stages

- None

Versions 2.2.x

XPS Stages Database Version: V2.2.0

Version history: ECO released March, 2008

All stages

- Minus limit changed for CMAxx from 0 to -0.0001 according to the new constraint of the V2.2.0 firmware
- Minus limit changed for LTAxx from 0 to -0.0001 according to the new constraint of the V2.2.0 firmware
- Minus limit changed for UTMxx/-1 from 0 to -0.0001 according to the new constraint of the V2.2.0 firmware

New stages

- None

Versions 2.1.x

XPS Stages Database Version: V2.1.3

Version history: Web released March, 2008

All stages

- Missing closed loop status parameter for RV stages with XPS-DRV03 driver board corrected
- KP and GKP parameters changed for IMSxx-V from 1000 to 800 and from 6 to 7.5
- XMSxx and XMLxx home search timeout increased

- Current servo loop bandwidth of RVxxT stages with XPS-DRV03 driver board changed from 750 to 500 Hz
- Velocity servo loop bandwidth of RVxxT stages with XPS-DRV03 driver board changed from 150 to 100 Hz

New stages

- None

XPS Stages Database Version: V2.1.2

Version history: ECO released November, 2007

All stages

- Default value of KForm parameter changed to 0
- XMS and XML home search velocity changed to 100 mm/s and time out updated
- BGS80PP limits corrected
- UTSxxCC minimum jerk time and maximum jerk time changed from 0.001 and 0.01 to 0.005 and 0.05
- LTA and BGS backlash changed to 0 unit
- ScalingCurrent corrected to 5 A for XPS-DRV03 driver board configuration
- CurrentLimit corrected for XPS-DRVMx driver board configuration

New stages

- UZS80CC and UZS80PP with XPS-DRV01 and XPS-DRV03 (CC only) driver boards added
- URSxxBCC, URSxxBPP and URS75BPPV6 with XPS-DRV01 and XPS-DRV03 (CC only) driver boards added

XPS Stages Database Version: V2.1.1

Version history: ECO released July, 2007

All stages

- VP-5ZA travel changed to +/- 2.4 mm
- RV120CCHL, RV160CCHL, RV240CCHL, RV350CCHL servo loop gains corrected
- RV120CC, RV160CC, RV240CC, RV350CC with XPS-DRV03 driver board servo loop gains corrected
- BGS50CC encoder resolution rounding corrected
- BGS50PP displacement per full step rounding corrected
- UTSCC maximum allowed voltage corrected
- RGV100BL with XPS-DRV02 driver board configuration name corrected
- RGV100 current cut-off frequency changed to 500 Hz

New stages

- RV350HAT and RV350HAT-F with XPS-DRV03 driver board added

XPS Stages Database Version: V2.1.0

Version history: ECO released February, 2007

All stages

- LTAPPV6 home search timeout increased to 400 s
- PR50CC encoder resolution corrected
- XMS, XML and IMS-LM with AnalogSin120AccelerationLMI interface added
- InitializationAcceleration parameters replaced by InitializationAccelerationLevel in %: need a manual update by the user for current stages.ini configurations
- MappingFileName parameter removed for NoEncoder configuration

New stages

- UTS50CC, UTS100CC, UTS150CC, UTS50PP, UTS100PP, UTS150PP, UTS50PPV6, UTS100PPV6 et UTS150PPV6 with XPS-DRV01 and XPS-DRV03 (CC only) driver boards added
- RVS80CC et RVS80PP with XPS-DRV01 and XPS-DRV03 (CC only) driver boards added
- GTS30V with XPS-DRV01 and XPS-DRV03 driver boards added
- RGV100BL with XPS-DRV02 driver board added
- BGS50CC, BGS50PP, BGS80CC, BGS80PP with XPS-DRV01 and XPS-DRV03 (CC only) driver boards added
- URS75PPV6 with XPS-DRV01 driver board added

Versions 2.0.x

XPS Stages Database Version: V2.0.0

Version history: Released November, 2006

All stages

- GTS missing parameters added
- M- configurations removed to reduce stage data base size
- XPS-DRV03 configuration added for all ILSCCHA stages

Versions 1.6.x

XPS Stages Database Version: V1.6.3

Version history: Released October, 2006

All stages

- DriverCurrentCutOffFrequency parameter name change to DriverCutOffFrequency for XPS-DRV02 driver board
- PositionerMappingLineNumber and PositionerMaxPositionError parameters added in case of mapping use but empty

XPS Stages Database Version: V1.6.2

Version history: Released October, 2006

All stages

- (M-)UTM stepper /1 and /-1 configurations corrected
- CMA-25CCCL and CMA-12CCCL pulse width frequency changed to 200 kHz
- GTS70 and GTS150 parameters corrected
- XPS-DRVM5 and XPS-DRV03 configurations added to (M-)VP-25AA, (M-)VP-25XA, (M-)VP-5ZA
- Travel limits corrected for LTA actuators
- first release with the stage database tool manager

New stages

- LTAPPV6 added

XPS Stages Database Version: V1.6.1

Version history: Released July, 2006

All stages

- Modify Kd for CMA12CCCL

XPS Stages Database Version: V1.6.0

Version history: Released June, 2006

All stages

- Add XPS-DRV03 configurations in parallel to XPS-DRVMx configurations
- Add "spindle" configurations for all stages in rotation not for BGM and RV-HA
- modification PID paramètres of CMA12CCCL and CMA25CCCL
- correction PID parameter units of RGV

New stages

- GTS75 and GTS150 stages

Versions 1.5.x

XPS Stages Database Version: V1.5.0

Version history: Released January, 2006

All stages

- Modifications of LTA
- Modifications of RV240 and RV350

Versions 1.4.x

XPS Stages Database Version: V1.4.3

Version history: Released November, 2005

All stages

- Correction of a bug concerning the travel of all DRVM driven stages

XPS Stages Database Version: V1.4.2

Version history: Released November, 2005

All stages

- Modification of DriverErrorAmplifierGaim from 9 to 5 on all MTM???CC?? stages

New stages

- RV stages with -F extension
- M-IMS100V and M-IMS300V

XPS Stages Database Version: V1.4.1

Version history: Version July, 2005

All stages

- Usage of variable PID
- Short integration time: 1sec in place of 1e+99sec
- jerktime = 0.5sec in place of 0.05
- HomeSearchMaximumAcceleration = MaximumAcceleration/4 in place of MaximumAcceleration/2

New stages

- IMS100V
- IMS300V

XPS Stages Database Version: V1.4.0

Version history: Released May, 2005

All stages

- None

New stages

- M-MTM100PE.1 encoder resolution corrected
- IMS LM added
- XML and XMS added

Service Form

Your Local Representative

Tel.: _____

Fax:_____

Name: _____

Company:_____

Address:_____

Country:_____

P.O. Number:_____

Item(s) Being Returned:_____

Model#: _____

Return authorization #: _____
(Please obtain prior to return of item)

Date: _____

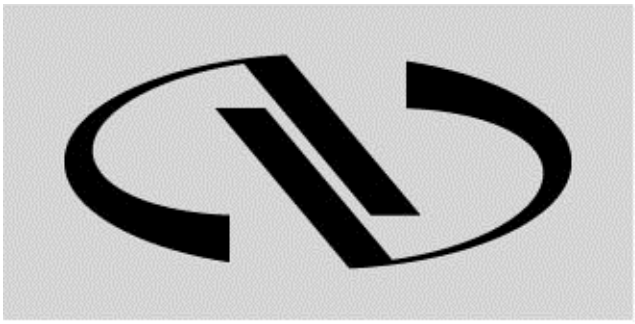
Phone Number: _____

Fax Number: _____

Serial #: _____

Description: _____

Reasons of return of goods (please list any specific problems): _____



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