ENGLISH

Altivar ATV610 Parameter List

PHA1600605

1 [Simply start] SYS-

1.1 [Macro Config] CFG
[Start/Stop] bStS
[Auto/Manual] bAMN
[PID controller] bPid
[Preset speeds] bPSP
[Modbus] bMbC
[Multi-pump 1] bMP1
[Multi-pump 2] bMP2

1.2 [Simply start] Sim-
[Nominal Motor Power] nPr
[Nom Motor Current] nCr
[Motor Th Current] itH
[Acceleration] ACC
[Deceleration] dEC
[Low speed] LSP
[High speed] HSP
[Output Ph Rotation] PHr
[Ref Freq 1 Config] Fr1
[OutPhaseLoss Assign] oPL
[2/3-Wire Control] tCC
[Dual rating] drt

1.3 [Modified parameters] LMd-

2 [Display] Mon-

2.1 [Motor parameters] MMo-
[Motor Speed] SPd
[Motor voltage] uoP
[Motor Power] oPr
[Motor Torque] otr
[Motor Current] LCr
[Motor Therm State] tHr

2.2 [Drive parameters] MPi-
[Pre-Ramp Ref Freq] FrH
[Ref Frequency] LFr
[Motor Frequency] rFr
[Mains Voltage] uLn
[DC bus voltage] VbuS
[Drive Therm State] tHd
[Used param. set] CFPS
[Motor Run Time] rtHH
[Power-on time] PtHH
[IGBT Warning Counter] tAC
[PID reference] rPC
[PID feedback] rPF
[PID Error] rPE
[PID Output] rPo

2.3 [I/O Map] ioM-
[Digital Input Map] LiA-
[Analog inputs image] AiA-
[AI(x) assignment] AiXA
[AI(x) Min. Value] uiLX
[AI(x) Max Value] uiHX
[AI(x) Min. Value] CrLX
[AI(x) Max Value] CrHX
[AI(x) filter] AiXF
where x is a number from 1 to 5
[Analog outputs image] AoA-
[AQ(x) assignment] AoX
[AQ(x) min Output] uoLX
[AQ(x) max Output] uoHX
[AQ(x) min output] AoLX
[AQ(x) max output] AoHX
[Scaling AQ(x)min] ASLX
[Scaling AQ(x)max] ASHX
[AQ(x) Filter] AoXF
where x is a number from 1 to 2
[Digital Output Map] LoA

2.4 [Energy parameters] EnP-
[Motor Consumption] ME4
[Motor Consumption] ME3
[Motor Consumption] ME2
[Motor Consumption] ME1
[Motor Consumption] ME0

2.5 [Communication map] CMM-
[Command Channel] CMdC
[Cmd Register] CMd
[Ref Freq Channel] rFCC
[Pre-Ramp Ref Freq] FrH
[CIA402 State Reg] EtA
[Modbus network diag] Mnd-
[COM LED] Mdb1
[Mdb Frame Nb] MIct
[Mdb NET CRC errors] MIEc
[Com. scanner input map] iSA-
[Com Scan In(x) val.] nM1 to nMB
[Com scan output map] oSA-
[Com Scan Out(x) val.] nC1 to nCB
[Modbus HMI diag] MdH-
[COM LED] Mdb2
[Mdb NET frames] M2ct
[Mdb NET CRC errors] M2Ec
[Command word image] CWi-
[Modbus Cmd] CMd1
[COM. Module cmd.] CMd3
[Freq. ref. word map] rWi-
[Modbus Ref Freq] LFr1
[Com Module Ref Freq] LFr3

2.6 [Application Parameters] APr-
[Variable Speed Pump] MPP-
[Available Pumps] MPAn
[Nb of Staged Pumps] MPSn
[Lead Pump] PLid
[Next Staged Pump] PntS
[Next Destaged Pump] Pntd
[Pump (x) State] PXS
[Pump (x) Type] PXt
[Pump (x) Runtime] PXot
[Pump (x) Nb Starts] PXnS
where x is a number from 1 to 6
[Booster Control Pump] bcP-
[Booster Status] bcS

3 [Diagnostics] diA-

3.1 [Diag. data] ddt-
[Last Warning] LALr
[last Error] LFt
[Nb Of Starts] nSM
[Motor Run Time] rtH
[Other State] SSt
[Identification] oid

3.2 [Error history] PFH-
[Last Error (x)] dP1 to dPB
[Drive state] HSx
[Last Error (x) Status] EPx
[ETI state word] iPx
[Cmd word] CMPx
[Motor current] LCPx
[Output frequency] rFPx
[Elapsed time] rtPx
[DC bus voltage] uLPx
[Motor therm state] tHPx
[Command Channel] dCCx
[Ref Freq Channel] drCx
[Motor Torque] otPx
[Drive Thermal State] tdPx
[IGBT Junction Temp] tJPx
[Switching Frequency] SFPx
where x is a number from 1 to 8

3.3 [Warnings] ALr-
[Actual Warnings] ALrd
[Warning History] ALh

[-] after codE means there are more parameters levels

Some parameters have visibility constraints.
See ATV610 Programming manual (EAV64387).

4 [Complete settings] CSt-

4.1 [Motor parameters] MPA-
[Motor Standard] bFr
[Nominal Motor Power] nPr
[Nom Motor Voltage] unS
[Nom Motor Current] nCr
[Nominal Motor Freq] FrS
[Nominal Motor Speed] nSP
[Max frequency] tFr
[Motor Th Current] itH
[Output Ph Rotation] PHr
[Motor control type] Ctt
[Sync Nominal I] nCrS(1)
[Nom SyncMotor Speed] nSPS(1)
[Nom Motor torque] tqS(1)
[Pole pairs] PPnS(1)
[Angle setting type] ASt(1)
[Syn. EMF constant] PHS(1)
[SyncMotor Stator R] rSAS(1)
[Autotune L d-axis] LdS(1)
[Autotune L q-axis] LqS(1)
[Sync Nominal Freq] FrSS(1)
[PSI Align Curr Max] MCr(1)
[Relative d-axis error] rdAE(1)
[Saliency mot. state] SMot(1)
[Tune selection] Stun(1)
[Rotational Current Level] rCL(1)
[Rotational Torque Current] rtC(1)
[RCI Max Freq] rCSP(1)
[RCI Round Nb] rCrP(1)
[RCI With Transformer] rCir(1)
(1) Not available for Frame Size 7 = ATV610C22N4 ATV610C25N4
[U/F Profile] PFL
[U1] u1
[F1] F1
[U2] u2
[F2] F2
[U3] u3
[F3] F3
[U4] u4
[F4] F4
[U5] u5
[F5] F5
[IR compensation] uFr
[Slip compensation] SLP
[Switching frequency] SFr
[Switch Freq Type] SFt
[Noise Reduction] nrd
[Motor Control 46] En46
[Motor surge limit.] SVL
[Attenuation Time] SoP
[Current Limitation] CL1
[Autotuning] tun
[Autotuning Status] tuS
[Dual rating] drt
[Boost activation] boA
[Boost] boo
[Freq Boost] FAb
[Current Filter Time] crtF
[Currents Filter] crFA
[Input Filter] dCr-
[Input Filter] iF1
[DC Bus Ripple Config] dCrC
[Cur Loop Config Gain] Crb
[Cur Loop Default Gain] CrbA
[Cur Loop Damp Coef] Crdr

4.2 [Input/Output] io-
[2/3-Wire Control] tCC
[2-wire type] tCt
[Reverse Assign] rrS
[DI1 Assignment] L1IC-
[DI1 Low Assignment] L1IL
[DI1 High Assignment] L1IH
[DI1 Delay] L1id
[DI2 Assignment] L12C-
[DI3 Assignment] L13C-
[DI4 Assignment] L14C-
[DI5 Assignment] L15C-
[DI6 Assignment] L16C-
[DI11 Assignment] L11IC-
[DI12 Assignment] L12IC-
[DI13 Assignment] L13IC-
[DI14 Assignment] L14IC-
[DI15 Assignment] L15IC-
[DI16 Assignment] L16IC-

[Ref Freq template] bSP
[AI1 configuration] AI1-
[AI1 assignment] AI1A
[AI1 Type] AI1t
[AI1 Min. Value] uIL1
[AI1 Max Value] uIH1
[AI1 Min. Value] CrL1
[AI1 Max Value] CrH1
[AI1 filter] AI1F
[AI1 Interm. point X] AI1E
[AI1 Interm. point Y] AI1S
[AI2 configuration] AI2-
[AI3 configuration] AI3-
[AI4 configuration] AI4-
[AI5 configuration] AI5-
[AIV1 assignment] AV1A-
[DQ11 configuration] do11-
[DQ12 configuration] do12-
[R1 configuration] r1-
[R1 Assignment] r1
[R1 Delay time] r1d
[R1 Active at] r1S
[R1 Holding time] r1H
[R2 configuration] r2-
[R3 configuration] r3-
[R4 configuration] r4-
[R5 configuration] r5-
[R6 configuration] r6-
[AQ1 configuration] Ao1-
[AQ1 assignment] Ao1-
[AQ1 Type] Ao1t
[AQ1 min output] AoL1
[AQ1 max output] AoH1
[AQ1 min output] uoL1
[AQ1 max output] uoH1
[Scaling AQ1 min] ASL1
[Scaling AQ1 max] ASH1
[AQ1 Filter] Ao1F
[AQ2 configuration] Ao2-

4.3 [Command and Reference] CrP-

[Low Speed] LSP
[High Speed] HSP
[Ref Freq 1 Config] Fr1
[Reverse Disable] rin
[Stop Key Enable] PSt
[Control Mode] CHCF
[Command Switching] CCS
[Cmd channel 1] Cd1
[Cmd channel 2] Cd2
[Freq Switch Assign] rFC
[Ref Freq 2 Config] Fr2
[Copy Ch1-Ch2] CoP
[Forced Local Freq] FLoC
[Time-out forc. local] FLot
[Forced Local Assign] FLo
[HMI cmd.] bMP

4.4 [Generic functions] CSGF-

[Ramp] rAMP-
[Ramp Type] rPt
[Ramp increment] inr
[Acceleration] ACC
[Deceleration] dEC
[Begin Acc round] tA1
[End Acc round] tA2
[Begin Dec round] tA3
[End Dec round] tA4
[Ramp 2 Thd] Frt
[Ramp Switch Assign] rPS
[Acceleration 2] AC2
[Deceleration 2] dE2
[Dec.Ramp Adapt] brA
[+/- speed] uPd-
[+ Speed Assign] uSP-
[- Speed Assign] dSP-
[Ref Frequency Save] Str
[Stop configuration] Stt-
[Type of stop] Stt
[Freewheel Stop] nSt
[Freewheel stop Thd] FFt
[Fast Stop Assign] FSt-
[Ramp Divider] dCF
[DC Injection Assign] dCi
[DC Inj Level 1] idC
[DC Inj Time 1] td1
[DC Inj Level 2] idC2
[DC Inj Time 2] tdC
[Auto DC injection] AdC-
[Auto DC injection] AdC
[Auto DC inj Level 1] SdC1
[Auto DC inj Time 1] tdC1
[Auto DC inj Level 2] SdC2
[Auto DC inj Time 2] tdC2
[Jog] JoG-
[Jog Assign] JoG-
[Jog Frequency] JGF
[Jog Delay] JGt
[Preset Speeds] PSS-
[2 Preset Freq] PS2
[4 Preset Freq] PS4
[8 Preset Freq] PS8
[16 Preset Freq] PS16
[Preset Speed 2] SP2
[Preset Speed 3] SP3
[Preset Speed 4] SP4
[Preset Speed 5] SP5
[Preset Speed 6] SP6
[Preset Speed 7] SP7
[Preset Speed 8] SP8
[Preset Speed 9] SP9
[Preset Speed 10] SP10
[Preset Speed 11] SP11
[Preset Speed 12] SP12
[Preset Speed 13] SP13
[Preset Speed 14] SP14
[Preset Speed 15] SP15
[Preset Speed 16] SP16
[Skip Frequency] JPF
[Skip Frequency 2] JF2
[3rd Skip Frequency] JF3
[Skip Freq.Hysteresis] JFH
[Define system units] SuC-
[P sensor unit] SuPr
[Flow rate unit] SuFr
[Temperature unit] SutP
[Currency unit list] SuCu
[Liquid Density] rHo
[PID controller] Pid-
[PID Feedback] Fdb
[Type of control] toCt
[PID feedback Assign] PiF
[Min PID feedback] PiF1
[Max PID feedback] PiF2
[PID feedback] rPF
[Min fbk Warning] PAL
[Max fbk Warning] PAH
[PID Reference] rF-
[Intern PID Ref] Pi1
[Ref Freq 1 Config] Fr1
[Min PID Process] PiP1
[Max PID Process] PiP2
[Internal PID ref] rPi
[Auto/Manual assign.] PAu
[Manual PID reference] PiM
[PID preset references] Pr1-
[2 PID Preset Assign] Pr2
[4 PID Preset Assign] Pr4
[Ref PID Preset 2] rP2
[Ref PID Preset 3] rP3
[Ref PID Preset 4] rP4
[Predictive Speed Ref] FPi
[Speed input %] PSr
[Settings] St-
[PID Prop.Gain] rPG
[PID Intgl.Gain] ri1G
[PID derivative gain] rdG
[PID ramp] PrP
[PID Inversion] PiC
[PID Min Output] PoL
[PID Max Output] PoH
[PID error Warning] PEr
[PID Integral OFF] Pi1S
[PID acceleration time] ACCP
[PID Start Ref Freq] SFS
[Sleep/Wakeup] SPW
[Sleep menu] SLP-
[Sleep Detect Mode] SLPM
[Sleep Switch Assign] SLPW
[Inst. Flow Assign.] FSIA
[Sleep Flow Level] SLnL
[Sleep Pressure Level] SLPL
[Sleep Min Speed] SLSL
[Sleep Power Level] SLPr
[Sleep Delay] SLPd
[Boost] Sbt-
[SLeep Boost Speed] SLbS
[Sleep Boost Time] SLbt
[Advanced sleep check] AdS-
[Sleep Mode] ASLM
[Sleep Condition] ASLC
[Sleep Check Delay] ASLd
[Check Sleep Ref spd] ASLr
[Wake up menu] WKP-
[Wake Up Mode] WuPM
[Wake Up Process level] WuPF
[Wake Up Process Error] WuPE
[Wake Up Delay] WuPd
[Threshold reached] tHrE-
[High Current Thd] Ctd
[Low I Threshold] CtdL
[Motor Freq Thd] Ftd
[Low Freq.Threshold] FtdL
[Freq. threshold 2] F2d
[2 Freq. Threshold] F2dL
[Motor Therm Thd] ttd
[Reference high Thd] rtd
[Reference low Thd] rtdL
[Mains contactor command] LLC-
[Mains V. time out] Lct
[Mains Contactor] LLc
[Drive Lock] LES
[Parameters switching] MLP-
[2 Parameter sets] chA1
[3 Parameter sets] chA2
[Parameter Selection] SPS
[Stop after speed timeout] PrSP-
[Low Speed Timeout] tLS
[Sleep Offset Thres.] SLE
[Advanced sleep check] AdS
[Sleep Mode] ASLM
[Sleep Condition] ASLc
[Sleep Check Delay] ASLd
[Check Sleep Ref spd] ASLr
[Booster Control] bSt-
[System Architecture] MPS-
[Pump System Archi] MPSA
[Nb Of Pumps] MPPn
[Pumps Configuration] PuMP-
[Pump 1 Cmd Assign] MPo1
[Pump 1 Ready Assign] MPi1
[Pump 2 Cmd Assign] MPo2
[Pump 2 Ready Assign] MPi2
[Pump 3 Cmd Assign] MPo3
[Pump 3 Ready Assign] MPi3
[Pump 4 Cmd Assign] MPo4
[Pump 4 Ready Assign] MPi4
[Pump 5 Cmd Assign] MPo5
[Pump 5 Ready Assign] MPi5
[Pump 6 Cmd Assign] MPo6
[Pump 6 Ready Assign] MPi6
[Pump Cycling Mode] MPPc
[Lead Pump Altern.] MPLA
[Altern Wait Time] MPAt
[Pump Auto Cycling] MPcP
[Pump Ready Delay] MPid
[MultiPump ErrorResp] MPFb
[Booster Control] bSc-
[Booster Control] bcM
[Stage/Destage Cond.] SdcM-
[Boost Working range] bcWA
[Booster Stg Delay] bSd
[Booster Dstg Delay] bdd
[Boost Override range] bcoA
[Booster S/D Interval] bSdt

4.5 [Generic monitoring] GPr-

[Stall monitoring] StPr-
[Stall monitoring] StPc
[Stall Max Time] StP1
[Stall Current] StP2
[Stall Frequency] StP3
[Therm sensor monit] MtSP-
[AI2 Th Monitoring] th2S
[AI2 Type] AI2t
[AI2 Th Warn Level] th2A
[AI2 Th Error Level] th2F
[AI2 Th Error Resp] th2b
[AI2 Th Value] th2V
[AI3 Th Monitoring] th3S
[AI3 Type] AI3t
[AI3 Th Warn Level] th3A
[AI3 Th Error Level] th3F
[AI3 Th Error Resp] th3b
[AI3 Th Value] th3V
[AI4 Th Monitoring] th4S
[AI4 Type] AI4t
[AI4 Th Warn Level] th4A
[AI4 Th Error Level] th4F
[AI4 Th Error Resp] th4b
[AI4 Th Value] th4V
[AI5 Th Monitoring] th5S
[AI5 Type] AI5t
[AI5 Th Warn Level] th5A
[AI5 Th Error Level] th5F
[AI5 Th Error Resp] th5b
[AI5 Th Value] th5V

4.6 [Error/Warning handling] CSWM-

[Fault Reset] rSt-
[Fault Reset Assign] rSF
[Prod Restart Assign] rPA
[Product restart] rP
[Auto Fault Reset] Atr-
[Auto Fault Reset] Atr
[Fault Reset Time] tAr
[Catch on the fly] FLr-
[Catch On Fly] FLr
[Catch on Fly Sensitivity] Vcb
[Catch on Fly Mode] coFM

[Motor thermal monit] tHt -
[Motor Thermal Mode] tht
[Motor Therm Thd] ttd
[MotorTemp ErrorResp] oLL
[Output phase Loss] oPL -
[OutPhaseLoss Assign] oPL
[OutPhaseLoss Delay] odt
[Input phase loss] iPL -
[InPhaseLoss Assign] iPL
[External error] EtF -
[Ext Error assign] EtF
[Ext Error Resp] EPL
[Undervoltage handling] uSb -
[Undervoltage Resp] uSb
[Mains voltage] urES
[Undervoltage level] uSL
[UnderVolt timeout] uSt
[Stop Type PLoss] StP
[UnderV. restart tm] tSM
[Prevention level] uPL
[Max stop time] StM
[DC bus maintain time] tbS
[Ground Fault] GrFL -
[Ground Fault Activation] GrFL
[4-20 mA loss] LFL -
[AI1 4-20mA loss] LFL1
[AI2 4-20mA loss] LFL2
[AI3 4-20mA loss] LFL3
[AI4 4-20mA loss] LFL4
[AI5 4-20mA loss] LFL5
[AI Loss Inhibition] inLF
[Fallback speed] LFF -
[Fallback speed] LFF
[Error detection disable] inH -
[ErrorDetect Disable] inH
[Fieldbus Interrupt Resp] CLL -
[Modbus Error Resp] SLL
[Communication Module] CoMo -
[Fieldbus Interrupt Resp] CLL
[Tuning Error Resp] tnL
[Process underload] uLd -
[Unld T. Del. Detect] uLt
[Unld.Thr.Nom.Speed] Lun
[Unld.Thr.0.Speed] LuL
[Unld. FreqThr. Det.] rMud
[Hysteresis Freq] Srb
[Underload Mangmt.] udL
[Underload T.B.Rest.] Ftu
[Process overload] oLd -
[Ovld Time Detect.] toL
[Ovld Detection Thr.] Loc
[Hysteresis Freq] Srb
[Ovld.Proces.Mngmt] odL
[Overload T.B.Rest.] Fto
[Warning groups config] AGCF -
[Warn grp 1 definition] A1c
[Warn grp 2 definition] A2c
[Warn grp 3 definition] A3c
[Warn grp 4 definition] A4c
[Warn grp 5 definition] A5c

4.7 [Maintenance] CSMA -
[Diagnostics] dAu -
[FAN Diagnostics] Fnt
[LED Diagnostics] hLt
[IGBT Diagnostics with motor] iWt
[IGBT Diagnostics w/o motor] iWot
[Fan management] FANA -
[Fan mode] FFM
[Time Counter Reset] rPr
[Overmodul. Activation] oVMA

5 [Communication] CoM -

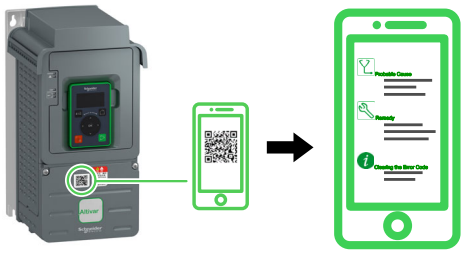
[Modbus Address] Add
[Modbus baud rate] tbr
[Modbus Format] tFo
[ModbusTimeout] ttO
[Com. scanner input] iCS -
[Scan. IN1 address] nMA1
[Scan. IN2 address] nMA2
[Scan. IN3 address] nMA3
[Scan. IN4 address] nMA4
[Scan. IN5 address] nMA5
[Scan. IN6 address] nMA6
[Scan. IN7 address] nMA7
[Scan. IN8 address] nMA8
[Com. scanner output] oCS -
[Scan.Out1 address] ncA1
[Scan.Out2 address] ncA2
[Scan.Out3 address] ncA3
[Scan.Out4 address] ncA4
[Scan.Out5 address] ncA5
[Scan.Out6 address] ncA6
[Scan.Out7 address] ncA7
[Scan.Out8 address] ncA8
[Profibus] Pbc -
[Address] Adrc

6 [File management] FMt -

6.1 [Transfer config file] tCF -
[Copy to the drive] oPF
[Copy from the drive] SAF

6.2 [Factory settings] FCS -
[Config. Source] FCSi
[Parameter group list] Fry -
[Go to Factory Settings] GFS
[Save Configuration] SCSi

6.3 [Firmware Update] FWuP -
[Firmware update diag] FWud -
[Firmware Update Status] FWSt
[Firmware Update Error] FWEr
[Identification] oid -
[Package version] PFu -
[Package Type] PKtP
[Package Version] PKVS
[Update Firmware] FWAP -
[Abort Firmware Update] FWCL



Troubleshooting

Scan the QR code in front of the drive to open the ATV610 Programming manual (EAV64387) and select *Diagnostics and Troubleshooting* chapter.

7 [My preferences] MyP -

7.1 [Language] LnG -

7.2 [Password] Cod -
[Password status] PSSt
[Password] PWd
[Upload rights] uLr
[Download rights] dLr

7.3 [Customization] CuS -
[Display screen type] MSC -
[Display value type] Mdt
[Parameter Selection] MPc

7.4 [Access Level] LAc -
[Basic] bAS
[Expert] EPr

7.5 [LCD settings] cnL -
[Screen Contrast] cSt
[Standby] Sby
[Display Terminal locked] KLCK

Notes