

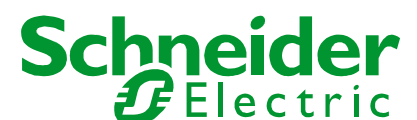
MiCOM P438

Rail Catenary Protection Devices

Address Assignment List

This document does not replace the Technical Manual

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1 Address Assignment List

1.1 Logical Device: Control

Logical Node	Data Object	CDC	Data Attr.	Address	Description	
LLN0	Mod	INC	stVal	005.027	IEC : Mode	
	Beh	INS	stVal	005.028	IEC : Behavior	
	Health	INS	stVal	005.029	IEC : Healthy	
	NamPlt	LPL	vendor	003.183	PC : Name of manufacturer	
			swRev	002.120	DVICE : Software version	
LPHD1	PhyNam	DPL	vendor	003.183	PC : Name of manufacturer	
			swRev	002.120	DVICE : Software version	
			serNum	002.124	DVICE : F number	
	PhyHealth	INS	stVal	005.029	IEC : Healthy	
RREC1	Mod	INC	stVal	000.219	IEC : RREC.Mod	
	ModOper	OPER	ctlVal	015.060	ARC : General enable USER	
	Beh	INS	stVal	000.220	IEC : RREC.Beh	
	Health	INS	stVal	000.123	IEC : PTOC.Health	
	NamPlt	LPL	vendor	003.183	PC : Name of manufacturer	
			swRev	002.120	DVICE : Software version	
		Op	ACT	general	037.009	MAIN : Close command
		AutoRecSt	INS	stVal	000.221	IEC : RREC.STAT
		RecHsr	ACT	general	037.007	ARC : (Re)close signal HSR
		RecTdr	ACT	general	037.006	ARC : (Re)close signal TDR

1.2 Logical Device: Measurements

Logical Node	Data Object	CDC	Data Attr.	Address	Description
LLN0	Mod	INC	stVal	005.027	IEC : Mode
	Beh	INS	stVal	005.028	IEC : Behavior
	Health	INS	stVal	005.029	IEC : Healthy
	NamPlt	LPL	vendor	003.183	PC : Name of manufacturer
			swRev	002.120	DVICE : Software version
LPHD1	PhyNam	DPL	vendor	003.183	PC : Name of manufacturer
			swRev	002.120	DVICE : Software version
			serNum	002.124	DVICE : F number
	PhyHealth	INS	stVal	005.029	IEC : Healthy
MmuNorMMXN1	Mod	INC	stVal	005.027	IEC : Mode
	Beh	INS	stVal	005.028	IEC : Behavior
	Health	INS	stVal	000.124	IEC : MMXU.HEALTH
	NamPlt	LPL	vendor	003.183	PC : Name of manufacturer
			swRev	002.120	DVICE : Software version
	ImpcVal	Vector	mag	005.000	MAIN : Load impedance Z sec
MmuPriMMXN1	Mod	INC	stVal	005.027	IEC : Mode
	Beh	INS	stVal	005.028	IEC : Behavior
	Health	INS	stVal	000.124	IEC : MMXU.HEALTH
	NamPlt	LPL	vendor	003.183	PC : Name of manufacturer
			swRev	002.120	DVICE : Software version

Logical Device: Measurements

Logical Node	Data Object	CDC	Data Attr.	Address	Description
	Amp	MV	mag	004.110	MAIN : Current I prim.
	Vol	MV	mag	004.112	MAIN : Voltage V prim.
	Watt	MV	mag	004.050	MAIN : Active power P prim.
	VolAmpr	MV	mag	004.052	MAIN : Reac. power Q prim.
	PwrFact	MV	mag	004.054	MAIN : Active power factor
	ImpcVal	Vector	mag	005.005	MAIN : Load imped. Z prim.
	Hz	MV	mag	004.040	MAIN : Frequency f
MmuPriMMXN2	LnCfg	ACT	general	086.095	DVICE : V.T./C.T. 2p variant
	Mod	INC	stVal	006.182	IEC : MMXN2/3.Mod
	Beh	INS	stVal	006.183	IEC : MMXN2/3.Beh
	Health	INS	stVal	000.124	IEC : MMXU.HEALTH
	NamPlt	LPL	vendor	003.183	PC : Name of manufacturer
			swRev	002.120	DVICE : Software version
	Amp	MV	mag	005.040	MAIN : Current IA prim.
	Vol	MV	mag	005.042	MAIN : Voltage VA prim.
MmuPriMMXN3	Mod	INC	stVal	006.182	IEC : MMXN2/3.Mod
	Beh	INS	stVal	006.183	IEC : MMXN2/3.Beh
	Health	INS	stVal	000.124	IEC : MMXU.HEALTH
	NamPlt	LPL	vendor	003.183	PC : Name of manufacturer
			swRev	002.120	DVICE : Software version
	Amp	MV	mag	006.040	MAIN : Current IB prim.
	Vol	MV	mag	006.042	MAIN : Voltage VB prim.
	LnCfg	ACT	general	086.095	DVICE : V.T./C.T. 2p variant
MmuSecMMXN1	Mod	INC	stVal	005.027	IEC : Mode
	Beh	INS	stVal	005.028	IEC : Behavior
	Health	INS	stVal	000.124	IEC : MMXU.HEALTH
	NamPlt	LPL	vendor	003.183	PC : Name of manufacturer
			swRev	002.120	DVICE : Software version
	Amp	MV	mag	004.111	MAIN : Current I p.u.
	Vol	MV	mag	004.113	MAIN : Voltage V p.u.
	Watt	MV	mag	004.051	MAIN : Active power P p.u.
	VolAmpr	MV	mag	004.053	MAIN : Reac. power Q p.u.
	ImpcVal	Vector	mag	005.004	MAIN : Load impedance Z p.u
	Hz	MV	mag	004.070	MAIN : Frequency f p.u.
	LodAng	MV	mag	004.078	MAIN : Load angle phi p.u.
MmuSecMMXN2	Mod	INC	stVal	006.182	IEC : MMXN2/3.Mod
	Beh	INS	stVal	006.183	IEC : MMXN2/3.Beh
	Health	INS	stVal	000.124	IEC : MMXU.HEALTH
	NamPlt	LPL	vendor	003.183	PC : Name of manufacturer
			swRev	002.120	DVICE : Software version
	Amp	MV	mag	005.041	MAIN : Current IA p.u.
	Vol	MV	mag	005.043	MAIN : Voltage VA p.u.
	LnCfg	ACT	general	086.095	DVICE : V.T./C.T. 2p variant
MmuSecMMXN3	Mod	INC	stVal	006.182	IEC : MMXN2/3.Mod
	Beh	INS	stVal	006.183	IEC : MMXN2/3.Beh
	Health	INS	stVal	000.124	IEC : MMXU.HEALTH
	NamPlt	LPL	vendor	003.183	PC : Name of manufacturer
			swRev	002.120	DVICE : Software version
	Amp	MV	mag	006.041	MAIN : Current IB p.u.
	Vol	MV	mag	006.043	MAIN : Voltage VB p.u.

Logical Node	Data Object	CDC	Data Attr.	Address	Description
	LnCfg	ACT	general	086.095	DVICE : V.T./C.T. 2p variant

1.3 Logical Device: Protection

Logical Node	Data Object	CDC	Data Attr.	Address	Description
LLN0	Mod	INC	stVal	005.027	IEC : Mode
	ModOper	OPER	ctlVal	003.030	MAIN : Protection enabled
	Beh	INS	stVal	005.028	IEC : Behavior
	Health	INS	stVal	005.029	IEC : Healthy
	NamPlt	LPL	vendor	003.183	PC : Name of manufacturer
LPHD1			swRev	002.120	DVICE : Software version
	PhyNam	DPL	vendor	003.183	PC : Name of manufacturer
			swRev	002.120	DVICE : Software version
			serNum	002.124	DVICE : F number
	PhyHealth	INS	stVal	005.029	IEC : Healthy
DisPDIS1	Mod	INC	stVal	002.023	IEC : DisPDIS1.Mode
	ModOper	OPER	ctlVal	006.206	IEC : Z1 switch IEC
	Beh	INS	stVal	002.024	IEC : DisPDIS1.Beh
	Health	INS	stVal	000.124	IEC : MMXU.HEALTH
	NamPlt	LPL	vendor	003.183	PC : Name of manufacturer
			swRev	002.120	DVICE : Software version
	Str	ACD	general	006.240	IEC : DisPDIS1.Str
			dirGeneral	005.030	IEC : KURI.Coded Direction
	Op	ACT	general	006.241	IEC : DisPDIS1.Op
	Blk	SPS	stVal	039.163	DIST : Blocking t1 EXT
DisPDIS2	Mod	INC	stVal	002.025	IEC : DisPDIS2.Mode
	ModOper	OPER	ctlVal	007.016	IEC : Z1' switch IEC
	Beh	INS	stVal	002.026	IEC : DisPDIS2.Beh
	Health	INS	stVal	000.124	IEC : MMXU.HEALTH
	NamPlt	LPL	vendor	003.183	PC : Name of manufacturer
			swRev	002.120	DVICE : Software version
	Str	ACD	general	006.242	IEC : DisPDIS2.Str
			dirGeneral	005.030	IEC : KURI.Coded Direction
	Op	ACT	general	006.243	IEC : DisPDIS2.Op
	Blk	SPS	stVal	039.163	DIST : Blocking t1 EXT
DisPDIS3	Mod	INC	stVal	002.027	IEC : DisPDIS3.Mode
	ModOper	OPER	ctlVal	006.206	IEC : Z1 switch IEC
	Beh	INS	stVal	002.028	IEC : DisPDIS3.Beh
	Health	INS	stVal	000.124	IEC : MMXU.HEALTH
	NamPlt	LPL	vendor	003.183	PC : Name of manufacturer
			swRev	002.120	DVICE : Software version
	Str	ACD	general	006.244	IEC : DisPDIS3.Str
			dirGeneral	005.030	IEC : KURI.Coded Direction
	Op	ACT	general	006.245	IEC : DisPDIS3.Op
	Blk	SPS	stVal	039.163	DIST : Blocking t1 EXT
DisPDIS4	Mod	INC	stVal	002.029	IEC : DisPDIS4.Mode
	ModOper	OPER	ctlVal	007.016	IEC : Z1' switch IEC
	Beh	INS	stVal	002.030	IEC : DisPDIS4.Beh

Logical Device: Protection

Logical Node	Data Object	CDC	Data Attr.	Address	Description
	Health	INS	stVal	000.124	IEC : MMXU.HEALTH
	NamPlt	LPL	vendor	003.183	PC : Name of manufacturer
			swRev	002.120	DVICE : Software version
	Str	ACD	general	006.246	IEC : DisPDIS4.Str
			dirGeneral	005.030	IEC : KURI.Coded Direction
	Op	ACT	general	006.247	IEC : DisPDIS4.Op
	Blk	SPS	stVal	039.163	DIST : Blocking t1 EXT
DisPDIS5	Mod	INC	stVal	002.031	IEC : DisPDIS5.Mode
	ModOper	OPER	ctlVal	007.013	IEC : Z2 switch IEC
	Beh	INS	stVal	002.032	IEC : DisPDIS5.Beh
	Health	INS	stVal	000.124	IEC : MMXU.HEALTH
	NamPlt	LPL	vendor	003.183	PC : Name of manufacturer
			swRev	002.120	DVICE : Software version
	Str	ACD	general	006.248	IEC : DisPDIS5.Str
			dirGeneral	005.030	IEC : KURI.Coded Direction
	Op	ACT	general	006.249	IEC : DisPDIS5.Op
	Blk	SPS	stVal	039.164	DIST : Blocking t2S EXT
DisPDIS6	Mod	INC	stVal	002.033	IEC : DisPDIS6.Mode
	ModOper	OPER	ctlVal	007.017	IEC : Z2' switch IEC
	Beh	INS	stVal	002.034	IEC : DisPDIS6.Beh
	Health	INS	stVal	000.124	IEC : MMXU.HEALTH
	NamPlt	LPL	vendor	003.183	PC : Name of manufacturer
			swRev	002.120	DVICE : Software version
	Str	ACD	general	006.250	IEC : DisPDIS6.Str
			dirGeneral	005.030	IEC : KURI.Coded Direction
	Op	ACT	general	006.251	IEC : DisPDIS6.Op
	Blk	SPS	stVal	039.164	DIST : Blocking t2S EXT
DisPDIS7	Mod	INC	stVal	002.035	IEC : DisPDIS7.Mode
	ModOper	OPER	ctlVal	007.013	IEC : Z2 switch IEC
	Beh	INS	stVal	002.036	IEC : DisPDIS7.Beh
	Health	INS	stVal	000.124	IEC : MMXU.HEALTH
	NamPlt	LPL	vendor	003.183	PC : Name of manufacturer
			swRev	002.120	DVICE : Software version
	Str	ACD	general	006.252	IEC : DisPDIS7.Str
			dirGeneral	005.030	IEC : KURI.Coded Direction
	Op	ACT	general	006.253	IEC : DisPDIS7.Op
	Blk	SPS	stVal	039.165	DIST : Blocking t2L EXT
DisPDIS8	Mod	INC	stVal	002.037	IEC : DisPDIS8.Mode
	ModOper	OPER	ctlVal	007.017	IEC : Z2' switch IEC
	Beh	INS	stVal	002.038	IEC : DisPDIS8.Beh
	Health	INS	stVal	000.124	IEC : MMXU.HEALTH
	NamPlt	LPL	vendor	003.183	PC : Name of manufacturer
			swRev	002.120	DVICE : Software version
	Str	ACD	general	006.254	IEC : DisPDIS8.Str
			dirGeneral	005.030	IEC : KURI.Coded Direction
	Op	ACT	general	006.255	IEC : DisPDIS8.Op
	Blk	SPS	stVal	039.165	DIST : Blocking t2L EXT
DisPDIS9	Mod	INC	stVal	002.039	IEC : DisPDIS9.Mode
	ModOper	OPER	ctlVal	007.015	IEC : Z3 switch IEC
	Beh	INS	stVal	002.040	IEC : DisPDIS9.Beh

Logical Node	Data Object	CDC	Data Attr.	Address	Description
	Health	INS	stVal	000.124	IEC : MMXU.HEALTH
	NamPlt	LPL	vendor	003.183	PC : Name of manufacturer
			swRev	002.120	DVICE : Software version
	Str	ACD	general	007.001	IEC : DisPDIS9.Str
			dirGeneral	005.030	IEC : KURI.Coded Direction
	Op	ACT	general	007.002	IEC : DisPDIS9.Op
	Blk	SPS	stVal	039.166	DIST : Blocking t3S EXT
DisPDIS10	Mod	INC	stVal	006.212	IEC : DisPDIS10.Mod
	ModOper	OPER	ctlVal	007.018	IEC : Z3' switch IEC
	Beh	INS	stVal	006.213	IEC : DisPDIS10.Beh
	Health	INS	stVal	000.124	IEC : MMXU.HEALTH
	NamPlt	LPL	vendor	003.183	PC : Name of manufacturer
			swRev	002.120	DVICE : Software version
	Str	ACD	general	007.003	IEC : DisPDIS10.Str
			dirGeneral	005.030	IEC : KURI.Coded Direction
	Op	ACT	general	007.004	IEC : DisPDIS10.Op
	Blk	SPS	stVal	039.166	DIST : Blocking t3S EXT
DisPDIS11	Mod	INC	stVal	006.214	IEC : DisPDIS11.Mod
	ModOper	OPER	ctlVal	007.015	IEC : Z3 switch IEC
	Beh	INS	stVal	006.215	IEC : DisPDIS11.Beh
	Health	INS	stVal	000.124	IEC : MMXU.HEALTH
	NamPlt	LPL	vendor	003.183	PC : Name of manufacturer
			swRev	002.120	DVICE : Software version
	Str	ACD	general	007.005	IEC : DisPDIS11.Str
			dirGeneral	005.030	IEC : KURI.Coded Direction
	Op	ACT	general	007.006	IEC : DisPDIS11.Op
	Blk	SPS	stVal	039.167	DIST : Blocking t3L EXT
DisPDIS12	Mod	INC	stVal	006.216	IEC : DisPDIS12.Mod
	ModOper	OPER	ctlVal	007.018	IEC : Z3' switch IEC
	Beh	INS	stVal	006.217	IEC : DisPDIS12.Beh
	Health	INS	stVal	000.124	IEC : MMXU.HEALTH
	NamPlt	LPL	vendor	003.183	PC : Name of manufacturer
			swRev	002.120	DVICE : Software version
	Str	ACD	general	007.007	IEC : DisPDIS12.Str
			dirGeneral	005.030	IEC : KURI.Coded Direction
	Op	ACT	general	007.008	IEC : DisPDIS12.Op
	Blk	SPS	stVal	039.167	DIST : Blocking t3L EXT
DisPDIS13	Mod	INC	stVal	006.218	IEC : DisPDIS13.Mod
	ModOper	OPER	ctlVal	031.073	DIST : General enable USER
	Beh	INS	stVal	006.219	IEC : DisPDIS13.Beh
	Health	INS	stVal	000.124	IEC : MMXU.HEALTH
	NamPlt	LPL	vendor	003.183	PC : Name of manufacturer
			swRev	002.120	DVICE : Software version
	Str	ACD	general	007.009	IEC : DisPDIS13.Str
			dirGeneral	005.030	IEC : KURI.Coded Direction
	Op	ACT	general	007.010	IEC : DisPDIS13.Op
	Blk	SPS	stVal	039.168	DIST : Blocking tWPC EXT
SofPhsPSOF1	Mod	INC	stVal	001.237	IEC : SOTF.Mod
	ModOper	OPER	ctlVal	011.068	SOTF : General enable USER
	Beh	INS	stVal	001.238	IEC : SOTF.Beh

Logical Device: Protection

Logical Node	Data Object	CDC	Data Attr.	Address	Description
	Health	INS	stVal	000.123	IEC : PTOC.Health
	NamPlt	LPL	vendor	003.183	PC : Name of manufacturer
			swRev	002.120	DVICE : Software version
	Str	ACD	general	036.063	SOTF : tManual-close runn.
	Op	ACT	general	036.064	SOTF : Trip signal
	Blk	SPS	stVal	036.098	SOTF : Blocking EXT
	ParArcExt	ACT	general	039.063	SOTF : Par. ARC running EXT
DtpPhsPTOC1	Mod	INC	stVal	005.020	IEC : PhsPTOC1.Mode
	ModOper	OPER	ctlVal	031.068	DTOC : General enable USER
	Beh	INS	stVal	005.048	IEC : PhsPTOC1.Beh
	Health	INS	stVal	000.123	IEC : PTOC.Health
	NamPlt	LPL	vendor	003.183	PC : Name of manufacturer
			swRev	002.120	DVICE : Software version
	Str	ACD	general	035.020	DTOC : Starting I>
	Op	ACT	general	041.020	DTOC : Trip signal tI>
	Blk	SPS	stVal	041.060	DTOC : Blocking tI> EXT
DtpPhsPTOC2	Mod	INC	stVal	005.052	IEC : PhsPTOC2.Mode
	ModOper	OPER	ctlVal	031.068	DTOC : General enable USER
	Beh	INS	stVal	005.053	IEC : PhsPTOC2.Beh
	Health	INS	stVal	000.123	IEC : PTOC.Health
	NamPlt	LPL	vendor	003.183	PC : Name of manufacturer
			swRev	002.120	DVICE : Software version
	Str	ACD	general	035.021	DTOC : Starting I>>
	Op	ACT	general	040.011	DTOC : Trip signal tI>>
	Blk	SPS	stVal	041.061	DTOC : Blocking tI>> EXT
DtpPhsPTOC3	Mod	INC	stVal	005.054	IEC : PhsPTOC3.Mode
	ModOper	OPER	ctlVal	031.068	DTOC : General enable USER
	Beh	INS	stVal	005.066	IEC : PhsPTOC3.Beh
	Health	INS	stVal	000.123	IEC : PTOC.Health
	NamPlt	LPL	vendor	003.183	PC : Name of manufacturer
			swRev	002.120	DVICE : Software version
	Str	ACD	general	035.022	DTOC : Starting I>H
	Op	ACT	general	040.076	DTOC : Trip signal tI>H
	Blk	SPS	stVal	041.062	DTOC : Blocking tI>H EXT
ItpPhsPTOC1	Mod	INC	stVal	000.125	IEC : PhPTOC5.Mode
	ModOper	OPER	ctlVal	017.096	IDMT : General enable USER
	Beh	INS	stVal	000.128	IEC : PhPTOC5.Beh
	Health	INS	stVal	000.123	IEC : PTOC.Health
	NamPlt	LPL	vendor	003.183	PC : Name of manufacturer
			swRev	002.120	DVICE : Software version
	Str	ACD	general	040.080	IDMT : Starting Iref>
	Op	ACT	general	040.084	IDMT : Trip signal tIref>
	Blk	SPS	stVal	040.101	IDMT : Block. tIref> EXT
BocPhsPTOC1	Mod	INC	stVal	002.017	IEC : BocPhsPTOC1.Mode
	ModOper	OPER	ctlVal	014.011	BUOC : General enable USER
	Beh	INS	stVal	002.018	IEC : BocPhPTOC1.Beh
	Health	INS	stVal	000.123	IEC : PTOC.Health
	NamPlt	LPL	vendor	003.183	PC : Name of manufacturer
			swRev	002.120	DVICE : Software version
	Str	ACD	general	036.013	BUOC : Starting I>

Logical Node	Data Object	CDC	Data Attr.	Address	Description
	Op	ACT	general	036.014	BUOC : Trip signal I>
	Blk	SPS	stVal	038.127	BUOC : Blocking tI> EXT
BocPhsPTOC2	Mod	INC	stVal	006.114	IEC : BocPhsPTOC2.Mode
	ModOper	OPER	ctlVal	014.011	BUOC : General enable USER
	Beh	INS	stVal	006.115	IEC : BocPhsPTOC2.Beh
	Health	INS	stVal	000.123	IEC : PTOC.Health
	NamPlt	LPL	vendor	003.183	PC : Name of manufacturer
			swRev	002.120	DVICE : Software version
	Str	ACD	general	036.115	BUOC : Starting I>>
	Op	ACT	general	036.116	BUOC : Trip signal I>>
	Blk	SPS	stVal	038.128	BUOC : Blocking tI>> EXT
VtpPhsPTOV1	Mod	INC	stVal	000.151	IEC : PhPTOV1.Mode
	ModOper	OPER	ctlVal	023.030	V<> : General enable USER
	Beh	INS	stVal	000.165	IEC : PhPTOV1.Beh
	Health	INS	stVal	000.131	IEC : PTOV.HEALTH
	NamPlt	LPL	vendor	003.183	PC : Name of manufacturer
			swRev	002.120	DVICE : Software version
	Str	ACD	general	041.030	V<> : Starting V>
	Op	ACT	general	041.034	V<> : tV> elapsed
	Blk	SPS	stVal	041.068	V<> : Blocking tV> EXT
VtpPhsPTOV2	Mod	INC	stVal	000.154	IEC : PhPTOV2.Mode
	ModOper	OPER	ctlVal	023.030	V<> : General enable USER
	Beh	INS	stVal	000.166	IEC : PhPTOV2.Beh
	Health	INS	stVal	000.131	IEC : PTOV.HEALTH
	NamPlt	LPL	vendor	003.183	PC : Name of manufacturer
			swRev	002.120	DVICE : Software version
	Str	ACD	general	041.096	V<> : Starting V>>
	Op	ACT	general	041.035	V<> : tV>> elapsed
	Blk	SPS	stVal	041.069	V<> : Blocking tV>> EXT
PTRC1	TrBlk	ACT	general	039.050	MAIN : M-trip blocked
	Mod	INC	stVal	005.027	IEC : Mode
	Beh	INS	stVal	005.028	IEC : Behavior
	Health	INS	stVal	005.029	IEC : Healthy
	NamPlt	LPL	vendor	003.183	PC : Name of manufacturer
			swRev	002.120	DVICE : Software version
	Str	ACD	general	036.000	MAIN : General starting
			dirGeneral	005.030	IEC : KURI.Coded Direction
	Tr	ACT	general	039.011	MAIN : M-trip command
PTRC2	TrBlk	ACT	general	039.051	MAIN : R-trip blocked
	Mod	INC	stVal	005.027	IEC : Mode
	Beh	INS	stVal	005.028	IEC : Behavior
	Health	INS	stVal	005.029	IEC : Healthy
	NamPlt	LPL	vendor	003.183	PC : Name of manufacturer
			swRev	002.120	DVICE : Software version
	Str	ACD	general	036.000	MAIN : General starting
			dirGeneral	005.030	IEC : KURI.Coded Direction
	Tr	ACT	general	039.012	MAIN : R-trip command
PTRC3	TrBlk	ACT	general	039.052	MAIN : B-trip blocked
	Mod	INC	stVal	005.027	IEC : Mode
	Beh	INS	stVal	005.028	IEC : Behavior

Logical Device: Protection

Logical Node	Data Object	CDC	Data Attr.	Address	Description
	Health	INS	stVal	005.029	IEC : Healthy
	NamPlt	LPL	vendor	003.183	PC : Name of manufacturer
			swRev	002.120	DVICE : Software version
	Str	ACD	general	036.000	MAIN : General starting
			dirGeneral	005.030	IEC : KURI.Coded Direction
	Tr	ACT	general	039.013	MAIN : B-trip command
ThmPTTR1	Mod	INC	stVal	000.189	IEC : ThPTTR.Mode
	ModOper	OPER	ctlVal	007.025	IEC : 1 pl. line
	Beh	INS	stVal	000.191	IEC : ThPTTR.Beh
	Health	INS	stVal	000.123	IEC : PTOC.Health
	NamPlt	LPL	vendor	003.183	PC : Name of manufacturer
			swRev	002.120	DVICE : Software version
	Str	ACD	general	041.108	THERM : Starting k*Iref>
	Op	ACT	general	039.020	THERM : Trip signal
	Blk	SPS	stVal	041.074	THERM : Replica block EXT
	BlkThm	SPS	stVal	039.024	THERM : Reclosure blocked
	AlmThm	ACT	general	039.025	THERM : Warning
ThmPTTR2	Mod	INC	stVal	007.028	IEC : ThPTTR2.Mode
	ModOper	OPER	ctlVal	007.026	IEC : 2 pl. lines
	Beh	INS	stVal	007.029	IEC : ThPTTR2.Beh
	Health	INS	stVal	000.123	IEC : PTOC.Health
	NamPlt	LPL	vendor	003.183	PC : Name of manufacturer
			swRev	002.120	DVICE : Software version
	Str	ACD	general	041.108	THERM : Starting k*Iref>
	Op	ACT	general	039.020	THERM : Trip signal
	Blk	SPS	stVal	041.074	THERM : Replica block EXT
	BlkThm	SPS	stVal	039.024	THERM : Reclosure blocked
	AlmThm	ACT	general	039.025	THERM : Warning
ThmPTTR3	Mod	INC	stVal	007.030	IEC : ThPTTR3.Mode
	ModOper	OPER	ctlVal	007.027	IEC : 3 pl. lines
	Beh	INS	stVal	007.035	IEC : ThPTTR3.Beh
	Health	INS	stVal	000.123	IEC : PTOC.Health
	NamPlt	LPL	vendor	003.183	PC : Name of manufacturer
			swRev	002.120	DVICE : Software version
	Str	ACD	general	041.108	THERM : Starting k*Iref>
	Op	ACT	general	039.020	THERM : Trip signal
	Blk	SPS	stVal	041.074	THERM : Replica block EXT
	BlkThm	SPS	stVal	039.024	THERM : Reclosure blocked
	AlmThm	ACT	general	039.025	THERM : Warning
VtpPhsPTUV1	Mod	INC	stVal	000.174	IEC : PhPTUV1.Mode
	ModOper	OPER	ctlVal	023.030	V<> : General enable USER
	Beh	INS	stVal	000.181	IEC : PhPTUV1.Beh
	Health	INS	stVal	000.131	IEC : PTOV.HEALTH
	NamPlt	LPL	vendor	003.183	PC : Name of manufacturer
			swRev	002.120	DVICE : Software version
	Str	ACD	general	041.037	V<> : Starting V<
	Op	ACT	general	041.041	V<> : tV< elapsed
	Blk	SPS	stVal	041.070	V<> : Blocking tV< EXT
VtpPhsPTUV2	Mod	INC	stVal	000.175	IEC : PhPTUV2.Mode
	ModOper	OPER	ctlVal	023.030	V<> : General enable USER

Logical Node	Data Object	CDC	Data Attr.	Address	Description
	Beh	INS	stVal	000.182	IEC : PhPTUV2.Beh
	Health	INS	stVal	000.131	IEC : PTOV.HEALTH
	NamPlt	LPL	vendor	003.183	PC : Name of manufacturer
			swRev	002.120	DVICE : Software version
	Str	ACD	general	041.099	V<> : Starting V<<
	Op	ACT	general	041.042	V<> : tV<< elapsed
	Blk	SPS	stVal	041.071	V<> : Blocking tV<< EXT
RBRF1	Mod	INC	stVal	000.217	IEC : RBRF.Mod
	ModOper	OPER	ctlVal	022.100	CBF : General enable USER
	Beh	INS	stVal	000.218	IEC : RBRF.Beh
	Health	INS	stVal	005.029	IEC : Healthy
	NamPlt	LPL	vendor	003.183	PC : Name of manufacturer
			swRev	002.120	DVICE : Software version
	Str	ACD	general	039.011	MAIN : M-trip command
	OpEx	ACT	general	039.023	CBF : B-trip signal
	OpIn	ACT	general	039.022	CBF : R-trip signal
RBRF2	Mod	INC	stVal	000.217	IEC : RBRF.Mod
	ModOper	OPER	ctlVal	022.100	CBF : General enable USER
	Beh	INS	stVal	000.218	IEC : RBRF.Beh
	Health	INS	stVal	005.029	IEC : Healthy
	NamPlt	LPL	vendor	003.183	PC : Name of manufacturer
			swRev	002.120	DVICE : Software version
	Str	ACD	general	006.176	IEC : RBRF2.Str
	OpEx	ACT	general	039.000	CBF : CB Superv. Signal
DtpPhsRDIR1	Mod	INC	stVal	000.213	IEC : RDIR.Mod
	ModOper	OPER	ctlVal	031.131	DTOC : Direction measurem.
	Beh	INS	stVal	000.214	IEC : RDIR.Beh
	Health	INS	stVal	000.124	IEC : MMXU.HEALTH
	NamPlt	LPL	vendor	003.183	PC : Name of manufacturer
			swRev	002.120	DVICE : Software version
	Dir	ACD	general	000.215	IEC : PHRDIR.START
			dirGeneral	000.216	IEC : PHRDIR.DIR
DtpPhsRDIR2	Mod	INC	stVal	006.157	IEC : DtpPhsRDIR2.Mod
	ModOper	OPER	ctlVal	031.131	DTOC : Direction measurem.
	Beh	INS	stVal	006.158	IEC : DtpPhsRDIR2.Beh
	Health	INS	stVal	000.124	IEC : MMXU.HEALTH
	NamPlt	LPL	vendor	003.183	PC : Name of manufacturer
			swRev	002.120	DVICE : Software version
	Dir	ACD	general	000.215	IEC : PHRDIR.START
			dirGeneral	000.216	IEC : PHRDIR.DIR
ItpPhsRDIR1	Mod	INC	stVal	006.165	IEC : ItpPhsRDIR1.Mod
	ModOper	OPER	ctlVal	017.109	IDMT : Direction measurem.
	Beh	INS	stVal	006.166	IEC : ItpPhsRDIR1.Beh
	Health	INS	stVal	000.124	IEC : MMXU.HEALTH
	NamPlt	LPL	vendor	003.183	PC : Name of manufacturer
			swRev	002.120	DVICE : Software version
	Dir	ACD	general	006.167	IEC : ItpPhsRDIR1.Start
			dirGeneral	006.168	IEC : ItpPhsRDIR1.Dir
RFL01	Mod	INC	stVal	005.027	IEC : Mode
	Beh	INS	stVal	005.028	IEC : Behavior

Logical Device: Protection

Logical Node	Data Object	CDC	Data Attr.	Address	Description
	Health	INS	stVal	005.029	IEC : Healthy
	NamPlt	LPL	vendor	003.183	PC : Name of manufacturer
			swRev	002.120	DVICE : Software version
	FltZcVal	Vector	mag	004.029	FT_DA : Fault reactance,prim
	FltDiskm	MV	mag	004.022	FT_DA : Fault location
DisPDIS14	Mod	INC	stVal	006.238	IEC : DisPDIS14.Mod
	ModOper	OPER	ctlVal	008.230	IEC : Z4 switch IEC
	Beh	INS	stVal	006.239	IEC : DisPDIS14.Beh
	Health	INS	stVal	000.124	IEC : MMXU.HEALTH
	NamPlt	LPL	vendor	003.183	PC : Name of manufacturer
			swRev	002.120	DVICE : Software version
	Str	ACD	general	007.011	IEC : DisPDIS14.Str
			dirGeneral	005.030	IEC : KURI.Coded Direction
	Op	ACT	general	007.012	IEC : DisPDIS14.Op
	Blk	SPS	stVal	039.002	DIST : Blocking t4S EXT
DisPDIS15	Mod	INC	stVal	008.218	IEC : DisPDIS15.Mod
	ModOper	OPER	ctlVal	008.231	IEC : Z4' switch IEC
	Beh	INS	stVal	008.219	IEC : DisPDIS15.Beh
	Health	INS	stVal	000.124	IEC : MMXU.HEALTH
	NamPlt	LPL	vendor	003.183	PC : Name of manufacturer
			swRev	002.120	DVICE : Software version
	Str	ACD	general	008.224	IEC : DisPDIS15.Str
			dirGeneral	005.030	IEC : KURI.Coded Direction
	Op	ACT	general	008.225	IEC : DisPDIS15.Op
	Blk	SPS	stVal	039.002	DIST : Blocking t4S EXT
DisPDIS16	Mod	INC	stVal	008.220	IEC : DisPDIS16.Mod
	ModOper	OPER	ctlVal	008.230	IEC : Z4 switch IEC
	Beh	INS	stVal	008.221	IEC : DisPDIS16.Beh
	Health	INS	stVal	000.124	IEC : MMXU.HEALTH
	NamPlt	LPL	vendor	003.183	PC : Name of manufacturer
			swRev	002.120	DVICE : Software version
	Str	ACD	general	008.226	IEC : DisPDIS16.Str
	Op	ACT	general	008.227	IEC : DisPDIS16.Op
	Blk	SPS	stVal	039.019	DIST : Blocking t4L EXT
DisPDIS17	Mod	INC	stVal	008.222	IEC : DisPDIS17.Mod
	ModOper	OPER	ctlVal	008.231	IEC : Z4' switch IEC
	Beh	INS	stVal	008.223	IEC : DisPDIS17.Beh
	Health	INS	stVal	000.124	IEC : MMXU.HEALTH
	NamPlt	LPL	vendor	003.183	PC : Name of manufacturer
			swRev	002.120	DVICE : Software version
	Str	ACD	general	008.228	IEC : DisPDIS17.Str
			dirGeneral	005.030	IEC : KURI.Coded Direction
	Op	ACT	general	008.229	IEC : DisPDIS17.Op
	Blk	SPS	stVal	039.019	DIST : Blocking t4L EXT
DtpPhAPTOC1	Mod	INC	stVal	005.020	IEC : PhsPTOC1.Mode
	ModOper	OPER	ctlVal	130.065	DTOCA : General enable USER
	Beh	INS	stVal	005.048	IEC : PhsPTOC1.Beh
	Health	INS	stVal	000.123	IEC : PTOC.Health
	NamPlt	LPL	vendor	003.183	PC : Name of manufacturer
			swRev	002.120	DVICE : Software version

Logical Node	Data Object	CDC	Data Attr.	Address	Description
	Str	ACD	general	130.069	DTOCA : Starting I>
	Op	ACT	general	130.071	DTOCA : Trip signal tI>
	Blk	SPS	stVal	130.066	DTOCA : Blocking tI> EXT
DtpPhAPTOC2	Mod	INC	stVal	005.020	IEC : PhsPTOC1.Mode
	ModOper	OPER	ctlVal	130.065	DTOCA : General enable USER
	Beh	INS	stVal	005.048	IEC : PhsPTOC1.Beh
	Health	INS	stVal	000.123	IEC : PTOC.Health
	NamPlt	LPL	vendor	003.183	PC : Name of manufacturer
			swRev	002.120	DVICE : Software version
	Str	ACD	general	130.070	DTOCA : Starting I>>
	Op	ACT	general	130.072	DTOCA : Trip signal tI>>
	Blk	SPS	stVal	130.068	DTOCA : Blocking tI>> EXT
DtpPhBPTOC1	Mod	INC	stVal	005.020	IEC : PhsPTOC1.Mode
	ModOper	OPER	ctlVal	130.085	DTOCB : General enable USER
	Beh	INS	stVal	005.048	IEC : PhsPTOC1.Beh
	Health	INS	stVal	000.123	IEC : PTOC.Health
	NamPlt	LPL	vendor	003.183	PC : Name of manufacturer
			swRev	002.120	DVICE : Software version
	Str	ACD	general	130.089	DTOCB : Starting I>
	Op	ACT	general	130.091	DTOCB : Trip signal tI>
	Blk	SPS	stVal	130.086	DTOCB : Blocking tI> EXT
DtpPhBPTOC2	Mod	INC	stVal	005.020	IEC : PhsPTOC1.Mode
	ModOper	OPER	ctlVal	130.085	DTOCB : General enable USER
	Beh	INS	stVal	005.048	IEC : PhsPTOC1.Beh
	Health	INS	stVal	000.123	IEC : PTOC.Health
	NamPlt	LPL	vendor	003.183	PC : Name of manufacturer
			swRev	002.120	DVICE : Software version
	Str	ACD	general	130.090	DTOCB : Starting I>>
	Op	ACT	general	130.092	DTOCB : Trip signal tI>>
	Blk	SPS	stVal	130.088	DTOCB : Blocking tI>> EXT
ItpPhAPTOC1	Mod	INC	stVal	000.125	IEC : PhPTOC5.Mode
	ModOper	OPER	ctlVal	017.096	IDMT : General enable USER
	Beh	INS	stVal	000.128	IEC : PhPTOC5.Beh
	Health	INS	stVal	000.123	IEC : PTOC.Health
	NamPlt	LPL	vendor	003.183	PC : Name of manufacturer
			swRev	002.120	DVICE : Software version
	Str	ACD	general	130.110	IDMTA : Starting Iref>
	Op	ACT	general	130.113	IDMTA : Trip signal tIref>
	Blk	SPS	stVal	130.108	IDMTA : Block. tIref> EXT
ItpPhBPTOC1	Mod	INC	stVal	000.125	IEC : PhPTOC5.Mode
	ModOper	OPER	ctlVal	017.096	IDMT : General enable USER
	Beh	INS	stVal	000.128	IEC : PhPTOC5.Beh
	Health	INS	stVal	000.123	IEC : PTOC.Health
	NamPlt	LPL	vendor	003.183	PC : Name of manufacturer
			swRev	002.120	DVICE : Software version
	Str	ACD	general	130.130	IDMTB : Starting Iref>
	Op	ACT	general	130.133	IDMTB : Trip signal tIref>
	Blk	SPS	stVal	130.128	IDMTB : Block. tIref> EXT
RFLO2	Mod	INC	stVal	005.027	IEC : Mode
	Beh	INS	stVal	005.028	IEC : Behavior

Logical Device: Records

Logical Node	Data Object	CDC	Data Attr.	Address	Description
	Health	INS	stVal	005.029	IEC : Healthy
	NamPlt	LPL	vendor	003.183	PC : Name of manufacturer
			swRev	002.120	DVICE : Software version
	FltZcVal	Vector	mag	235.206	FT_DA : Fault react.,pri A
	FltDiskm	MV	mag	235.201	FT_DA : Fault location A
RFLO3	Mod	INC	stVal	005.027	IEC : Mode
	Beh	INS	stVal	005.028	IEC : Behavior
	Health	INS	stVal	005.029	IEC : Healthy
	NamPlt	LPL	vendor	003.183	PC : Name of manufacturer
			swRev	002.120	DVICE : Software version
	FltZcVal	Vector	mag	236.206	FT_DA : Fault react.,pri B
	FltDiskm	MV	mag	236.201	FT_DA : Fault location B

1.4 Logical Device: Records

Logical Node	Data Object	CDC	Data Attr.	Address	Description
LLN0	Mod	INC	stVal	005.027	IEC : Mode
	Beh	INS	stVal	005.028	IEC : Behavior
	Health	INS	stVal	005.029	IEC : Healthy
	NamPlt	LPL	vendor	003.183	PC : Name of manufacturer
			swRev	002.120	DVICE : Software version
LPHD1	PhyNam	DPL	vendor	003.183	PC : Name of manufacturer
			swRev	002.120	DVICE : Software version
			serNum	002.124	DVICE : F number
	PhyHealth	INS	stVal	005.029	IEC : Healthy
RDRE1	Mod	INC	stVal	005.027	IEC : Mode
	Beh	INS	stVal	005.028	IEC : Behavior
	Health	INS	stVal	005.029	IEC : Healthy
	NamPlt	LPL	vendor	003.183	PC : Name of manufacturer
			swRev	002.120	DVICE : Software version
	RcdMade	SPS	stVal	000.227	IEC : RDRE.RcdMade
	FltNum	INS	stVal	004.020	FT_RC : No. of faults
	GriFltNum	INS	stVal	004.010	FT_RC : No. system disturb.
	RcdStr	SPS	stVal	035.000	FT_RC : Record. in progress

1.5 Logical Device: System

1.5.1 SETTING-GROUP-CONTROL-BLOCK class model

The SETTING-GROUP-CONTROL-BLOCK (SGCB) allows the user to switch between the four pre-set parameter subsets (PS) during operation without interrupting the protection function. This Data Object (DO) can be found in System/LLN0.SGCB.

The SGCB class contains five mandatory DO. At this time, three of them are supported by the software.

Attribute name	Attribute type	Description	Status
NumOfSG	INT8U	Number of available SGs	SUPPORTED
ActSG	INT8U	SG currently in use	SUPPORTED
EditSG	INT8U	SG currently in edit mode	NOT SUPPORTED
CnfEdit	BOOLEAN	Confirm the edit process	NOT SUPPORTED
LActTm	TimeStamp	Time of the last ActSG processing (use of service SelectActiveSG)	SUPPORTED

In conformance with the IEC 61850 standard, a client shall use the service SelectActiveSG to activate any of the four PSs. This service is virtually a write operation on the Data Attribute (DA) ActSG with the corresponding PS value. A service request is acknowledged with a positive response (write operation succeeded) if the service was used with valid SGCBReference (System/LLN0.SGCB) and a valid SettingGroupNumber (1 to 4). Otherwise the response is negative (write operation failed). The SGCB doesn't offer any reporting mechanism. The value of the active PS can be obtained by reading the value of the Attribute ActSG. To enable spontaneous reporting of this value, for example in case of PS switch on the local control panel, a private DO CurSG (Current Setting Group) has been added to the logical node System\LLN0. The reporting behaviour of this status information can be set using the DO System\LLN0.urcbST.

1.5.2 System: List of Logical Nodes

Logical Node	Data Object	CDC	Data Attr.	Address	Description	
LLN0	Mod	INC	stVal	005.027	IEC : Mode	
	Beh	INS	stVal	005.028	IEC : Behavior	
	Health	INS	stVal	005.029	IEC : Healthy	
	NamPlt		LPL	vendor	003.183	PC : Name of manufacturer
				swRev	002.120	DVICE : Software version
	LEDRs	SPC	stVal	021.010	MAIN : Reset indicat. USER	
	LEDRsOper	OPER	ctlVal	021.010	MAIN : Reset indicat. USER	
	CurSG	INS	stVal	003.062	PSS : Actual param. subset	
	SGCB	SGC	ActSG	003.062	PSS : Actual param. subset	
AlmGGIO1	Mod	INC	stVal	005.027	IEC : Mode	
	Beh	INS	stVal	005.028	IEC : Behavior	
	Health	INS	stVal	005.029	IEC : Healthy	
	NamPlt		LPL	vendor	003.183	PC : Name of manufacturer
				swRev	002.120	DVICE : Software version
	Alm1	SPS	stVal	036.100	SFMON : Warning (relay)	
	Alm2	SPS	stVal	041.200	SFMON : Relay Kxx faulty	
	Alm3	SPS	stVal	004.065	MAIN : Blocked/faulty	
	Alm5	SPS	stVal	004.061	MAIN : M.c.b. trip V EXT	
	Alm7	SPS	stVal	038.023	MCMON : Meas. circ. V faulty	
	Alm10	SPS	stVal	120.043	COMM3 : Communications fault	
	Alm11	SPS	stVal	039.111	THERM : CTA error	
	Alm12	SPS	stVal	040.190	MEASI : PT100 faulty	
	Alm13	SPS	stVal	040.191	MEASI : Overload 20mA input	
	Alm14	SPS	stVal	040.192	MEASI : Open circ. 20mA inp.	
GosGGIO1	Mod	INC	stVal	001.228	IEC : Logik.Mod	
	Beh	INS	stVal	001.229	IEC : Logik.Beh	
	Health	INS	stVal	005.029	IEC : Healthy	
	NamPlt	LPL	vendor	003.183	PC : Name of manufacturer	

Logical Device: System

Logical Node	Data Object	CDC	Data Attr.	Address	Description
			swRev	002.120	DVICE : Software version
	Ind1	SPS	stVal	106.200	GOOSE : Input 1 state
	Ind2	SPS	stVal	106.201	GOOSE : Input 2 state
	Ind3	SPS	stVal	106.202	GOOSE : Input 3 state
	Ind4	SPS	stVal	106.203	GOOSE : Input 4 state
	Ind5	SPS	stVal	106.204	GOOSE : Input 5 state
	Ind6	SPS	stVal	106.205	GOOSE : Input 6 state
	Ind7	SPS	stVal	106.206	GOOSE : Input 7 state
	Ind8	SPS	stVal	106.207	GOOSE : Input 8 state
	Ind9	SPS	stVal	106.208	GOOSE : Input 9 state
	Ind10	SPS	stVal	106.209	GOOSE : Input 10 state
	Ind11	SPS	stVal	106.210	GOOSE : Input 11 state
	Ind12	SPS	stVal	106.211	GOOSE : Input 12 state
	Ind13	SPS	stVal	106.212	GOOSE : Input 13 state
	Ind14	SPS	stVal	106.213	GOOSE : Input 14 state
	Ind15	SPS	stVal	106.214	GOOSE : Input 15 state
	Ind16	SPS	stVal	106.215	GOOSE : Input 16 state
GosGGIO2	Mod	INC	stVal	001.228	IEC : Logik.Mod
	Beh	INS	stVal	001.229	IEC : Logik.Beh
	Health	INS	stVal	005.029	IEC : Healthy
	NamPlt	LPL	vendor	003.183	PC : Name of manufacturer
			swRev	002.120	DVICE : Software version
	Ind1	SPS	stVal	106.010	GOOSE : Output 1 state
	Ind2	SPS	stVal	106.012	GOOSE : Output 2 state
	Ind3	SPS	stVal	106.014	GOOSE : Output 3 state
	Ind4	SPS	stVal	106.016	GOOSE : Output 4 state
	Ind5	SPS	stVal	106.018	GOOSE : Output 5 state
	Ind6	SPS	stVal	106.020	GOOSE : Output 6 state
	Ind7	SPS	stVal	106.022	GOOSE : Output 7 state
	Ind8	SPS	stVal	106.024	GOOSE : Output 8 state
	Ind9	SPS	stVal	106.026	GOOSE : Output 9 state
	Ind10	SPS	stVal	106.028	GOOSE : Output 10 state
	Ind11	SPS	stVal	106.030	GOOSE : Output 11 state
	Ind12	SPS	stVal	106.032	GOOSE : Output 12 state
	Ind13	SPS	stVal	106.034	GOOSE : Output 13 state
	Ind14	SPS	stVal	106.036	GOOSE : Output 14 state
	Ind15	SPS	stVal	106.038	GOOSE : Output 15 state
	Ind16	SPS	stVal	106.040	GOOSE : Output 16 state
	Ind17	SPS	stVal	106.042	GOOSE : Output 17 state
	Ind18	SPS	stVal	106.044	GOOSE : Output 18 state
	Ind19	SPS	stVal	106.046	GOOSE : Output 19 state
	Ind20	SPS	stVal	106.048	GOOSE : Output 20 state
	Ind21	SPS	stVal	106.050	GOOSE : Output 21 state
	Ind22	SPS	stVal	106.052	GOOSE : Output 22 state
	Ind23	SPS	stVal	106.054	GOOSE : Output 23 state
	Ind24	SPS	stVal	106.056	GOOSE : Output 24 state
	Ind25	SPS	stVal	106.058	GOOSE : Output 25 state
	Ind26	SPS	stVal	106.060	GOOSE : Output 26 state
	Ind27	SPS	stVal	106.062	GOOSE : Output 27 state
	Ind28	SPS	stVal	106.064	GOOSE : Output 28 state

Logical Node	Data Object	CDC	Data Attr.	Address	Description
	Ind29	SPS	stVal	106.066	GOOSE : Output 29 state
	Ind30	SPS	stVal	106.068	GOOSE : Output 30 state
	Ind31	SPS	stVal	106.070	GOOSE : Output 31 state
	Ind32	SPS	stVal	106.072	GOOSE : Output 32 state
PloGGIO1	Mod	INC	stVal	001.228	IEC : Logik.Mod
	Beh	INS	stVal	001.229	IEC : Logik.Beh
	Health	INS	stVal	005.029	IEC : Healthy
	NamPlt	LPL	vendor	003.183	PC : Name of manufacturer
			swRev	002.120	DVICE : Software version
	Ind1	SPS	stVal	034.000	LOGIC : Input 1 EXT
	Ind2	SPS	stVal	034.001	LOGIC : Input 2 EXT
	Ind3	SPS	stVal	034.002	LOGIC : Input 3 EXT
	Ind4	SPS	stVal	034.003	LOGIC : Input 4 EXT
	Ind5	SPS	stVal	034.004	LOGIC : Input 5 EXT
	Ind6	SPS	stVal	034.005	LOGIC : Input 6 EXT
	Ind7	SPS	stVal	034.006	LOGIC : Input 7 EXT
	Ind8	SPS	stVal	034.007	LOGIC : Input 8 EXT
	Ind9	SPS	stVal	034.008	LOGIC : Input 9 EXT
	Ind10	SPS	stVal	034.009	LOGIC : Input 10 EXT
	Ind11	SPS	stVal	034.010	LOGIC : Input 11 EXT
	Ind12	SPS	stVal	034.011	LOGIC : Input 12 EXT
	Ind13	SPS	stVal	034.012	LOGIC : Input 13 EXT
	Ind14	SPS	stVal	034.013	LOGIC : Input 14 EXT
	Ind15	SPS	stVal	034.014	LOGIC : Input 15 EXT
	Ind16	SPS	stVal	034.015	LOGIC : Input 16 EXT
PloGGIO2	Mod	INC	stVal	001.228	IEC : Logik.Mod
	Beh	INS	stVal	001.229	IEC : Logik.Beh
	Health	INS	stVal	005.029	IEC : Healthy
	NamPlt	LPL	vendor	003.183	PC : Name of manufacturer
			swRev	002.120	DVICE : Software version
	Ind1	SPS	stVal	042.032	LOGIC : Output 1
	Ind2	SPS	stVal	042.034	LOGIC : Output 2
	Ind3	SPS	stVal	042.036	LOGIC : Output 3
	Ind4	SPS	stVal	042.038	LOGIC : Output 4
	Ind5	SPS	stVal	042.040	LOGIC : Output 5
	Ind6	SPS	stVal	042.042	LOGIC : Output 6
	Ind7	SPS	stVal	042.044	LOGIC : Output 7
	Ind8	SPS	stVal	042.046	LOGIC : Output 8
	Ind9	SPS	stVal	042.048	LOGIC : Output 9
	Ind10	SPS	stVal	042.050	LOGIC : Output 10
	Ind11	SPS	stVal	042.052	LOGIC : Output 11
	Ind12	SPS	stVal	042.054	LOGIC : Output 12
	Ind13	SPS	stVal	042.056	LOGIC : Output 13
	Ind14	SPS	stVal	042.058	LOGIC : Output 14
	Ind15	SPS	stVal	042.060	LOGIC : Output 15
	Ind16	SPS	stVal	042.062	LOGIC : Output 16
	Ind17	SPS	stVal	042.064	LOGIC : Output 17
	Ind18	SPS	stVal	042.066	LOGIC : Output 18
	Ind19	SPS	stVal	042.068	LOGIC : Output 19
	Ind20	SPS	stVal	042.070	LOGIC : Output 20

Logical Device: System

Logical Node	Data Object	CDC	Data Attr.	Address	Description
	Ind21	SPS	stVal	042.072	LOGIC : Output 21
	Ind22	SPS	stVal	042.074	LOGIC : Output 22
	Ind23	SPS	stVal	042.076	LOGIC : Output 23
	Ind24	SPS	stVal	042.078	LOGIC : Output 24
	Ind25	SPS	stVal	042.080	LOGIC : Output 25
	Ind26	SPS	stVal	042.082	LOGIC : Output 26
	Ind27	SPS	stVal	042.084	LOGIC : Output 27
	Ind28	SPS	stVal	042.086	LOGIC : Output 28
	Ind29	SPS	stVal	042.088	LOGIC : Output 29
	Ind30	SPS	stVal	042.090	LOGIC : Output 30
	Ind31	SPS	stVal	042.092	LOGIC : Output 31
	Ind32	SPS	stVal	042.094	LOGIC : Output 32
PloGGIO3	Mod	INC	stVal	001.228	IEC : Logik.Mod
	Beh	INS	stVal	001.229	IEC : Logik.Beh
	Health	INS	stVal	005.029	IEC : Healthy
	NamPlt	LPL	vendor	003.183	PC : Name of manufacturer
			swRev	002.120	DVICE : Software version
	Ind1	SPS	stVal	042.033	LOGIC : Output 1 (t)
	Ind2	SPS	stVal	042.035	LOGIC : Output 2 (t)
	Ind3	SPS	stVal	042.037	LOGIC : Output 3 (t)
	Ind4	SPS	stVal	042.039	LOGIC : Output 4 (t)
	Ind5	SPS	stVal	042.041	LOGIC : Output 5 (t)
	Ind6	SPS	stVal	042.043	LOGIC : Output 6 (t)
	Ind7	SPS	stVal	042.045	LOGIC : Output 7 (t)
	Ind8	SPS	stVal	042.047	LOGIC : Output 8 (t)
	Ind9	SPS	stVal	042.049	LOGIC : Output 9 (t)
	Ind10	SPS	stVal	042.051	LOGIC : Output 10 (t)
	Ind11	SPS	stVal	042.053	LOGIC : Output 11 (t)
	Ind12	SPS	stVal	042.055	LOGIC : Output 12 (t)
	Ind13	SPS	stVal	042.057	LOGIC : Output 13 (t)
	Ind14	SPS	stVal	042.059	LOGIC : Output 14 (t)
	Ind15	SPS	stVal	042.061	LOGIC : Output 15 (t)
	Ind16	SPS	stVal	042.063	LOGIC : Output 16 (t)
	Ind17	SPS	stVal	042.065	LOGIC : Output 17 (t)
	Ind18	SPS	stVal	042.067	LOGIC : Output 18 (t)
	Ind19	SPS	stVal	042.069	LOGIC : Output 19 (t)
	Ind20	SPS	stVal	042.071	LOGIC : Output 20 (t)
	Ind21	SPS	stVal	042.073	LOGIC : Output 21 (t)
	Ind22	SPS	stVal	042.075	LOGIC : Output 22 (t)
	Ind23	SPS	stVal	042.077	LOGIC : Output 23 (t)
	Ind24	SPS	stVal	042.079	LOGIC : Output 24 (t)
	Ind25	SPS	stVal	042.081	LOGIC : Output 25 (t)
	Ind26	SPS	stVal	042.083	LOGIC : Output 26 (t)
	Ind27	SPS	stVal	042.085	LOGIC : Output 27 (t)
	Ind28	SPS	stVal	042.087	LOGIC : Output 28 (t)
	Ind29	SPS	stVal	042.089	LOGIC : Output 29 (t)
	Ind30	SPS	stVal	042.091	LOGIC : Output 30 (t)
	Ind31	SPS	stVal	042.093	LOGIC : Output 31 (t)
	Ind32	SPS	stVal	042.095	LOGIC : Output 32 (t)
PloGGIO4	Mod	INC	stVal	001.228	IEC : Logik.Mod

Logical Node	Data Object	CDC	Data Attr.	Address	Description
	Beh	INS	stVal	001.229	IEC : Logik.Beh
	Health	INS	stVal	005.029	IEC : Healthy
	NamPlt	LPL	vendor	003.183	PC : Name of manufacturer
			swRev	002.120	DVICE : Software version
	Ind1	SPS	stVal	034.067	LOGIC : 1 has been set
	Ind2	SPS	stVal	034.068	LOGIC : 2 has been set
	Ind3	SPS	stVal	034.069	LOGIC : 3 has been set
	Ind4	SPS	stVal	034.070	LOGIC : 4 has been set
	Ind5	SPS	stVal	034.071	LOGIC : 5 has been set
	Ind6	SPS	stVal	034.072	LOGIC : 6 has been set
	Ind7	SPS	stVal	034.073	LOGIC : 7 has been set
	Ind8	SPS	stVal	034.074	LOGIC : 8 has been set
	Ind9	SPS	stVal	034.075	LOGIC : 1 set externally
	Ind10	SPS	stVal	034.076	LOGIC : 2 set externally
	Ind11	SPS	stVal	034.077	LOGIC : 3 set externally
	Ind12	SPS	stVal	034.078	LOGIC : 4 set externally
	Ind13	SPS	stVal	034.079	LOGIC : 5 set externally
	Ind14	SPS	stVal	034.080	LOGIC : 6 set externally
	Ind15	SPS	stVal	034.081	LOGIC : 7 set externally
	Ind16	SPS	stVal	034.082	LOGIC : 8 set externally
IdcGGIO1	Mod	INC	stVal	006.107	IEC : IdcGGIO.Mode
	Beh	INS	stVal	006.108	IEC : IdcGGIO.Beh
	Health	INS	stVal	006.109	IEC : IdcGGIO.Health
	NamPlt	LPL	vendor	003.183	PC : Name of manufacturer
			swRev	002.120	DVICE : Software version
	AnIn1	MV	mag	004.134	MEASI : Current IDC
	AnIn2	MV	mag	004.180	MEASI : Scaled value IDC,lin
RtdGGIO1	Mod	INC	stVal	006.110	IEC : RtdGGIO1.Mode
	Beh	INS	stVal	006.111	IEC : RtdGGIO1.Beh
	Health	INS	stVal	006.112	IEC : RtdGGIO1.Health
	NamPlt	LPL	vendor	003.183	PC : Name of manufacturer
			swRev	002.120	DVICE : Software version
	AnIn1	MV	mag	004.133	MEASI : Temperature
	AnIn2	MV	mag	004.221	MEASI : Temperature p.u.
LPHD1	PhyNam	DPL	vendor	003.183	PC : Name of manufacturer
			swRev	002.120	DVICE : Software version
			serNum	002.124	DVICE : F number
	PhyHealth	INS	stVal	005.029	IEC : Healthy
ZAXN1	Mod	INC	stVal	005.027	IEC : Mode
	Beh	INS	stVal	005.028	IEC : Behavior
	Health	INS	stVal	005.029	IEC : Healthy
	NamPlt	LPL	vendor	003.183	PC : Name of manufacturer
			swRev	002.120	DVICE : Software version
			configRev	-	
	EEHealth	INS	stVal	006.172	IEC : ZAXN1.EEHealth

Logical Device: System

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