

# 7SR11 Argus

Overcurrent Protection Relay

## IEC 61850 Model Implementation Conformance Statement (MICS)

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# Contents

<b>1</b>	<b>REYROLLE -&gt; IEC 61850 .....</b>	<b>6</b>
1.1	Device .....	6
1.2	AFD Count .....	14
1.3	AR Lockout Trip Counters.....	15
1.4	Autoreclose .....	15
1.5	Broken Conductor .....	16
1.6	CB Fail .....	16
1.7	Change Group.....	16
1.8	Current Meters .....	17
1.9	Delta Trip Counters .....	17
1.10	Derived Earth Fault.....	18
1.11	Disturbance Recorder .....	19
1.12	Double Point Controls (Enhanced Security) .....	19
1.13	Double Point Controls (Normal Security).....	20
1.14	Double Point Inputs .....	20
1.15	Double Point Outputs .....	21
1.16	General Trip Information .....	22
1.17	Inrush Detector.....	23
1.18	Line Check.....	23
1.19	Measured Earth Fault.....	25
1.20	Measurement .....	27
1.21	Measurement (Har2) .....	27
1.22	Measurement (Max) .....	28
1.23	Measurement (Mean) .....	28
1.24	Measurement (Min) .....	28
1.25	NPS Overcurrent .....	29
1.26	Overcurrent.....	29
1.27	Restricted Earth Fault.....	31
1.28	Sensitive Earth Fault .....	32
1.29	Single Point Controls (Enhanced Security) .....	33
1.30	Single Point Controls (Normal Security) .....	33
1.31	Single Point Inputs.....	34
1.32	Single Point Outputs.....	37
1.33	Thermal .....	39
1.34	Under Current.....	40

<b>2</b>	<b>IEC 61850 -&gt; REYROLLE</b>	<b>43</b>
2.1	PROT	43
2.1.1	A37gPTUC1	43
2.1.2	A37gPTUC2	43
2.1.3	A37PTUC1	44
2.1.4	A37PTUC2	44
2.1.5	A37SefPTUC1	45
2.1.6	A37SefPTUC2	45
2.1.7	A46BcPTOC1	46
2.1.8	A46DtPTOC1	46
2.1.9	A46ltPTOC1	47
2.1.10	A49PTR1	47
2.1.11	A50AFDSARC1	48
2.1.12	A50AFDSARC2	48
2.1.13	A50AFDSARC3	48
2.1.14	A50AFDSARC4	49
2.1.15	A50AFDSARC5	49
2.1.16	A50AFDSARC6	49
2.1.17	A50BfRBRF1	50
2.1.18	A50gLCPTOC1	50
2.1.19	A50gLCPTOC2	51
2.1.20	A50gPTOC1	51
2.1.21	A50gPTOC2	52
2.1.22	A50LCPTOC1	52
2.1.23	A50LCPTOC2	53
2.1.24	A50nPTOC1	53
2.1.25	A50nPTOC2	54
2.1.26	A50PTOC1	54
2.1.27	A50PTOC2	55
2.1.28	A50SefPTOC1	56
2.1.29	A50SefPTOC2	56
2.1.30	A50SLCPTOC1	57
2.1.31	A50SLCPTOC2	57
2.1.32	A51gPTOC1	57
2.1.33	A51gPTOC2	58
2.1.34	A51nPTOC1	58
2.1.35	A51nPTOC2	59
2.1.36	A51PTOC1	59

2.1.37	A51PTOC2 .....	60
2.1.38	A51SefPTOC1 .....	61
2.1.39	A51SefPTOC2 .....	61
2.1.40	A64hPTOC1 .....	61
2.1.41	A79RREC1 .....	62
2.1.42	A81Hb2PHAR1 .....	62
2.1.43	CntDelGGIO1 .....	63
2.1.44	CntLOGGIO1 .....	64
2.1.45	LLN0 .....	64
2.1.46	PTRC1 .....	65
2.1.47	RFLT1 .....	65
2.2	MEAS .....	66
2.2.1	Har2MMXU1 .....	66
2.2.2	I_MSQI1 .....	66
2.2.3	LLN0 .....	66
2.2.4	MaxMMXU1 .....	67
2.2.5	MeanMMXU1 .....	67
2.2.6	MinMMXU1 .....	67
2.2.7	MMXU1 .....	68
2.3	DR .....	68
2.3.1	LLN0 .....	68
2.3.2	RDRE1 .....	69
2.4	CTRL .....	69
2.4.1	BI6GGIO1 .....	69
2.4.2	BO8GGIO1 .....	70
2.4.3	DPDOesGGIO1 .....	70
2.4.4	DPDOesGGIO2 .....	70
2.4.5	DPDOesGGIO3 .....	71
2.4.6	DPDOesGGIO4 .....	71
2.4.7	DPDOnsGGIO1 .....	71
2.4.8	DPDOnsGGIO2 .....	72
2.4.9	DPDOnsGGIO3 .....	72
2.4.10	DPDOnsGGIO4 .....	72
2.4.11	DPi8GGIO1 .....	73
2.4.12	DPi8GGIO2 .....	73
2.4.13	DPo8GGIO1 .....	74
2.4.14	DPo8GGIO2 .....	74
2.4.15	E4GGIO1 .....	75
2.4.16	L9GGIO1 .....	75

2.4.17	LLN0.....	76
2.4.18	Q0CILO1 .....	77
2.4.19	Q0CSW11 .....	77
2.4.20	Q0XCBR1 .....	77
2.4.21	SPDOesGGIO1 .....	78
2.4.22	SPDOesGGIO2.....	78
2.4.23	SPDOesGGIO3.....	78
2.4.24	SPDOesGGIO4.....	79
2.4.25	SPDOnsGGIO1 .....	79
2.4.26	SPDOnsGGIO2.....	79
2.4.27	SPDOnsGGIO3.....	80
2.4.28	SPDOnsGGIO4.....	80
2.4.29	SPi64GGIO1 .....	80
2.4.30	SPo32GGIO1 .....	84
2.4.31	V8GGIO1 .....	86

# 1 Reyrolle -> IEC 61850

## 1.1 Device

Reyrolle	DOI	DA Group
LED Reset		
	CTRL.LLN0.LEDRs	stVal
Local Mode		
	PROT.CntDelGGIO1.Loc	stVal
	PROT.CntLOGGIO1.Loc	stVal
	CTRL.LLN0.Loc	stVal
	CTRL.Q0CSW11.Loc	stVal
	CTRL.Q0XCBR1.Loc	stVal
	CTRL.SPDOsGGIO1.Loc	stVal
	CTRL.SPDOsGGIO2.Loc	stVal
	CTRL.SPDOsGGIO3.Loc	stVal
	CTRL.SPDOsGGIO4.Loc	stVal
	CTRL.SPDOesGGIO1.Loc	stVal
	CTRL.SPDOesGGIO2.Loc	stVal
	CTRL.SPDOesGGIO3.Loc	stVal
	CTRL.SPDOesGGIO4.Loc	stVal
	CTRL.DPDOsGGIO1.Loc	stVal
	CTRL.DPDOsGGIO2.Loc	stVal
	CTRL.DPDOsGGIO3.Loc	stVal
	CTRL.DPDOsGGIO4.Loc	stVal
	CTRL.DPDOesGGIO1.Loc	stVal
	CTRL.DPDOesGGIO2.Loc	stVal
	CTRL.DPDOesGGIO3.Loc	stVal
	CTRL.DPDOesGGIO4.Loc	stVal
Non-Directional		
	PROT.A81Hb2PHAR1.Str	dirGeneral
	PROT.A81Hb2PHAR1.Str	dirPhsA
	PROT.A81Hb2PHAR1.Str	dirPhsB
	PROT.A81Hb2PHAR1.Str	dirPhsC
	PROT.A51PTOC1.Str	dirGeneral
	PROT.A51PTOC1.Str	dirPhsA

	PROT.A51PTOC1.Str	dirPhsB
	PROT.A51PTOC1.Str	dirPhsC
	PROT.A51PTOC2.Str	dirGeneral
	PROT.A51PTOC2.Str	dirPhsA
	PROT.A51PTOC2.Str	dirPhsB
	PROT.A51PTOC2.Str	dirPhsC
	PROT.A50PTOC1.Str	dirGeneral
	PROT.A50PTOC1.Str	dirPhsA
	PROT.A50PTOC1.Str	dirPhsB
	PROT.A50PTOC1.Str	dirPhsC
	PROT.A50PTOC2.Str	dirGeneral
	PROT.A50PTOC2.Str	dirPhsA
	PROT.A50PTOC2.Str	dirPhsB
	PROT.A50PTOC2.Str	dirPhsC
	PROT.A51nPTOC1.Str	dirGeneral
	PROT.A51nPTOC2.Str	dirGeneral
	PROT.A50nPTOC1.Str	dirGeneral
	PROT.A50nPTOC2.Str	dirGeneral
	PROT.A51SefPTOC1.Str	dirGeneral
	PROT.A51SefPTOC2.Str	dirGeneral
	PROT.A50SefPTOC1.Str	dirGeneral
	PROT.A50SefPTOC2.Str	dirGeneral
	PROT.A51gPTOC1.Str	dirGeneral
	PROT.A51gPTOC2.Str	dirGeneral
	PROT.A50gPTOC1.Str	dirGeneral
	PROT.A50gPTOC2.Str	dirGeneral
	PROT.A64hPTOC1.Str	dirGeneral
	PROT.A46ltPTOC1.Str	dirGeneral
	PROT.A46DtPTOC1.Str	dirGeneral
	PROT.A37PTUC1.Str	dirGeneral
	PROT.A37PTUC1.Str	dirPhsA
	PROT.A37PTUC1.Str	dirPhsB
	PROT.A37PTUC1.Str	dirPhsC
	PROT.A37PTUC2.Str	dirGeneral
	PROT.A37PTUC2.Str	dirPhsA
	PROT.A37PTUC2.Str	dirPhsB
	PROT.A37PTUC2.Str	dirPhsC

	PROT.A37SefPTUC1.Str	dirGeneral
	PROT.A37SefPTUC2.Str	dirGeneral
	PROT.A37gPTUC1.Str	dirGeneral
	PROT.A37gPTUC2.Str	dirGeneral
	PROT.A49PTTR1.Str	dirGeneral
	PROT.A46BcPTOC1.Str	dirGeneral
	PROT.A50LCPTOC1.Str	dirGeneral
	PROT.A50LCPTOC1.Str	dirPhsA
	PROT.A50LCPTOC1.Str	dirPhsB
	PROT.A50LCPTOC1.Str	dirPhsC
	PROT.A50LCPTOC2.Str	dirGeneral
	PROT.A50LCPTOC2.Str	dirPhsA
	PROT.A50LCPTOC2.Str	dirPhsB
	PROT.A50LCPTOC2.Str	dirPhsC
	PROT.A50SLCPTOC1.Str	dirGeneral
	PROT.A50SLCPTOC2.Str	dirGeneral
	PROT.A50gLCPTOC1.Str	dirGeneral
	PROT.A50gLCPTOC2.Str	dirGeneral
	PROT.A50BfRBRF1.Str	dirGeneral
	PROT.PTRC1.Str	dirGeneral
Out of Service		
	PROT.LLN0.Mod	stVal
	PROT.LLN0.Beh	stVal
	PROT.A81Hb2PHAR1.Beh	stVal
	PROT.A51PTOC1.Beh	stVal
	PROT.A51PTOC2.Beh	stVal
	PROT.A50PTOC1.Beh	stVal
	PROT.A50PTOC2.Beh	stVal
	PROT.A51nPTOC1.Beh	stVal
	PROT.A51nPTOC2.Beh	stVal
	PROT.A50nPTOC1.Beh	stVal
	PROT.A50nPTOC2.Beh	stVal
	PROT.A51SefPTOC1.Beh	stVal
	PROT.A51SefPTOC2.Beh	stVal
	PROT.A50SefPTOC1.Beh	stVal
	PROT.A50SefPTOC2.Beh	stVal
	PROT.A51gPTOC1.Beh	stVal



	PROT.A51gPTOC2.Beh	stVal
	PROT.A50gPTOC1.Beh	stVal
	PROT.A50gPTOC2.Beh	stVal
	PROT.A64hPTOC1.Beh	stVal
	PROT.A46ltPTOC1.Beh	stVal
	PROT.A46DtPTOC1.Beh	stVal
	PROT.A37PTUC1.Beh	stVal
	PROT.A37PTUC2.Beh	stVal
	PROT.A37SefPTUC1.Beh	stVal
	PROT.A37SefPTUC2.Beh	stVal
	PROT.A37gPTUC1.Beh	stVal
	PROT.A37gPTUC2.Beh	stVal
	PROT.A49PTTR1.Beh	stVal
	PROT.A50AFDSARC1.Beh	stVal
	PROT.A50AFDSARC2.Beh	stVal
	PROT.A50AFDSARC3.Beh	stVal
	PROT.A50AFDSARC4.Beh	stVal
	PROT.A50AFDSARC5.Beh	stVal
	PROT.A50AFDSARC6.Beh	stVal
	PROT.A46BcPTOC1.Beh	stVal
	PROT.A50LCPTOC1.Beh	stVal
	PROT.A50LCPTOC2.Beh	stVal
	PROT.A50SLCPTOC1.Beh	stVal
	PROT.A50SLCPTOC2.Beh	stVal
	PROT.A50gLCPTOC1.Beh	stVal
	PROT.A50gLCPTOC2.Beh	stVal
	PROT.A50BfRBRF1.Beh	stVal
	PROT.CntDelGGIO1.Beh	stVal
	PROT.CntLOGGIO1.Beh	stVal
	PROT.RFLT1.Beh	stVal
	PROT.PTRC1.Beh	stVal
	PROT.A79RREC1.Beh	stVal
	CTRL.LLN0.Mod	stVal
	CTRL.LLN0.Beh	stVal
	CTRL.Q0CSW11.Beh	stVal
	CTRL.Q0XCBR1.Beh	stVal
	CTRL.Q0CILO1.Beh	stVal

	CTRL.BI6GGIO1.Beh	stVal
	CTRL.BO8GGIO1.Beh	stVal
	CTRL.L9GGIO1.Beh	stVal
	CTRL.V8GGIO1.Beh	stVal
	CTRL.E4GGIO1.Beh	stVal
	CTRL.SPi64GGIO1.Beh	stVal
	CTRL.SP032GGIO1.Beh	stVal
	CTRL.SPDOnsGGIO1.Beh	stVal
	CTRL.SPDOnsGGIO2.Beh	stVal
	CTRL.SPDOnsGGIO3.Beh	stVal
	CTRL.SPDOnsGGIO4.Beh	stVal
	CTRL.SPDOesGGIO1.Beh	stVal
	CTRL.SPDOesGGIO2.Beh	stVal
	CTRL.SPDOesGGIO3.Beh	stVal
	CTRL.SPDOesGGIO4.Beh	stVal
	CTRL.DPDOnsGGIO1.Beh	stVal
	CTRL.DPDOnsGGIO2.Beh	stVal
	CTRL.DPDOnsGGIO3.Beh	stVal
	CTRL.DPDOnsGGIO4.Beh	stVal
	CTRL.DPDOesGGIO1.Beh	stVal
	CTRL.DPDOesGGIO2.Beh	stVal
	CTRL.DPDOesGGIO3.Beh	stVal
	CTRL.DPDOesGGIO4.Beh	stVal
	CTRL.DPi8GGIO1.Beh	stVal
	CTRL.DPi8GGIO2.Beh	stVal
	CTRL.DPo8GGIO1.Beh	stVal
	CTRL.DPo8GGIO2.Beh	stVal
	MEAS.LLN0.Mod	stVal
	MEAS.LLN0.Beh	stVal
	MEAS.I_MSQI1.Beh	stVal
	MEAS.Har2MMXU1.Beh	stVal
	MEAS.MMXU1.Beh	stVal
	MEAS.MeanMMXU1.Beh	stVal
	MEAS.MinMMXU1.Beh	stVal
	MEAS.MaxMMXU1.Beh	stVal
	DR.LLN0.Mod	stVal
	DR.LLN0.Beh	stVal

	DR.RDRE1.Beh	stVal
Protection Active		
	PROT.LLN0.Mod	stVal
	PROT.LLN0.Beh	stVal
	PROT.A49PTTR1.Beh	stVal
	PROT.A50BfRBRF1.Beh	stVal
	PROT.PTRC1.Mod	stVal
	PROT.PTRC1.Beh	stVal
Protection Elements Enabled		
	PROT.A79RREC1.Mod	stVal
	PROT.A79RREC1.Beh	stVal
Protection Healthy		
	PROT.LLN0.Health	stVal
	PROT.A81Hb2PHAR1.Health	stVal
	PROT.A51PTOC1.Health	stVal
	PROT.A51PTOC2.Health	stVal
	PROT.A50PTOC1.Health	stVal
	PROT.A50PTOC2.Health	stVal
	PROT.A51nPTOC1.Health	stVal
	PROT.A51nPTOC2.Health	stVal
	PROT.A50nPTOC1.Health	stVal
	PROT.A50nPTOC2.Health	stVal
	PROT.A51SefPTOC1.Health	stVal
	PROT.A51SefPTOC2.Health	stVal
	PROT.A50SefPTOC1.Health	stVal
	PROT.A50SefPTOC2.Health	stVal
	PROT.A51gPTOC1.Health	stVal
	PROT.A51gPTOC2.Health	stVal
	PROT.A50gPTOC1.Health	stVal
	PROT.A50gPTOC2.Health	stVal
	PROT.A64hPTOC1.Health	stVal
	PROT.A46ltPTOC1.Health	stVal
	PROT.A46DtPTOC1.Health	stVal
	PROT.A37PTUC1.Health	stVal
	PROT.A37PTUC2.Health	stVal
	PROT.A37SefPTUC1.Health	stVal
	PROT.A37SefPTUC2.Health	stVal

	PROT.A37gPTUC1.Health	stVal
	PROT.A37gPTUC2.Health	stVal
	PROT.A49PTTR1.Health	stVal
	PROT.A50AFDSARC1.Health	stVal
	PROT.A50AFDSARC2.Health	stVal
	PROT.A50AFDSARC3.Health	stVal
	PROT.A50AFDSARC4.Health	stVal
	PROT.A50AFDSARC5.Health	stVal
	PROT.A50AFDSARC6.Health	stVal
	PROT.A46BcPTOC1.Health	stVal
	PROT.A50LCPTOC1.Health	stVal
	PROT.A50LCPTOC2.Health	stVal
	PROT.A50SLCPTOC1.Health	stVal
	PROT.A50SLCPTOC2.Health	stVal
	PROT.A50gLCPTOC1.Health	stVal
	PROT.A50gLCPTOC2.Health	stVal
	PROT.A50BfRBRF1.Health	stVal
	PROT.CntDelGGIO1.Health	stVal
	PROT.CntLOGGIO1.Health	stVal
	PROT.RFLT1.Health	stVal
	PROT.PTRC1.Health	stVal
	PROT.A79RREC1.Health	stVal
	CTRL.LLN0.Mod	stVal
	CTRL.LLN0.Beh	stVal
	CTRL.LLN0.Health	stVal
	CTRL.Q0CSW11.Health	stVal
	CTRL.Q0XCBR1.Health	stVal
	CTRL.Q0CILO1.Health	stVal
	CTRL.BI6GGIO1.Health	stVal
	CTRL.BO8GGIO1.Health	stVal
	CTRL.L9GGIO1.Health	stVal
	CTRL.V8GGIO1.Health	stVal
	CTRL.E4GGIO1.Health	stVal
	CTRL.SPi64GGIO1.Health	stVal
	CTRL.SP032GGIO1.Health	stVal
	CTRL.SPDOnsGGIO1.Health	stVal
	CTRL.SPDOnsGGIO2.Health	stVal

	CTRL.SPDOnsGGIO3.Health	stVal
	CTRL.SPDOnsGGIO4.Health	stVal
	CTRL.SPDOesGGIO1.Health	stVal
	CTRL.SPDOesGGIO2.Health	stVal
	CTRL.SPDOesGGIO3.Health	stVal
	CTRL.SPDOesGGIO4.Health	stVal
	CTRL.DPDOnsGGIO1.Health	stVal
	CTRL.DPDOnsGGIO2.Health	stVal
	CTRL.DPDOnsGGIO3.Health	stVal
	CTRL.DPDOnsGGIO4.Health	stVal
	CTRL.DPDOesGGIO1.Health	stVal
	CTRL.DPDOesGGIO2.Health	stVal
	CTRL.DPDOesGGIO3.Health	stVal
	CTRL.DPDOesGGIO4.Health	stVal
	CTRL.DPi8GGIO1.Health	stVal
	CTRL.DPi8GGIO2.Health	stVal
	CTRL.DPo8GGIO1.Health	stVal
	CTRL.DPo8GGIO2.Health	stVal
	MEAS.LLN0.Mod	stVal
	MEAS.LLN0.Beh	stVal
	MEAS.LLN0.Health	stVal
	MEAS.I_MSQI1.Health	stVal
	MEAS.Har2MMXU1.Health	stVal
	MEAS.MMXU1.Health	stVal
	MEAS.MeanMMXU1.Health	stVal
	MEAS.MinMMXU1.Health	stVal
	MEAS.MaxMMXU1.Health	stVal
	DR.LLN0.Mod	stVal
	DR.LLN0.Beh	stVal
	DR.LLN0.Health	stVal
	DR.RDRE1.Mod	stVal
	DR.RDRE1.Beh	stVal
	DR.RDRE1.Health	stVal
Software Revision		
	PROT.LLN0.NamPlt	swRev
	CTRL.LLN0.NamPlt	swRev
	MEAS.LLN0.NamPlt	swRev

	DR.LLN0.NamPlt	swRev
Vendor Name		
	PROT.LLN0.NamPlt	vendor
	CTRL.LLN0.NamPlt	vendor
	MEAS.LLN0.NamPlt	vendor
	DR.LLN0.NamPlt	vendor

## 1.2 AFD Count

Reyrolle	DOI	DA Group
Counter Target		
	PROT.A50AFDSARC1.FACntRs	stVal
	PROT.A50AFDSARC2.FACntRs	stVal
	PROT.A50AFDSARC3.FACntRs	stVal
	PROT.A50AFDSARC4.FACntRs	stVal
	PROT.A50AFDSARC5.FACntRs	stVal
	PROT.A50AFDSARC6.FACntRs	stVal
Counter Target Enabled		
	PROT.A50AFDSARC1.Mod	stVal
	PROT.A50AFDSARC1.Beh	stVal
	PROT.A50AFDSARC2.Mod	stVal
	PROT.A50AFDSARC2.Beh	stVal
	PROT.A50AFDSARC3.Mod	stVal
	PROT.A50AFDSARC3.Beh	stVal
	PROT.A50AFDSARC4.Mod	stVal
	PROT.A50AFDSARC4.Beh	stVal
	PROT.A50AFDSARC5.Mod	stVal
	PROT.A50AFDSARC5.Beh	stVal
	PROT.A50AFDSARC6.Mod	stVal
	PROT.A50AFDSARC6.Beh	stVal
Counter Target FADet		
	PROT.A50AFDSARC1.FADet	stVal
	PROT.A50AFDSARC2.FADet	stVal
	PROT.A50AFDSARC3.FADet	stVal
	PROT.A50AFDSARC4.FADet	stVal
	PROT.A50AFDSARC5.FADet	stVal

	PROT.A50AFDSARC6.FADet	stVal
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### 1.3 AR Lockout Trip Counters

Reyrolle	DOI	DA Group
CB Count To AR Block		
	PROT.CntLOGGIO1.ISCSO1	stVal
CB Count To AR Block Enabled		
	PROT.CntLOGGIO1.Mod	stVal
	PROT.CntLOGGIO1.Beh	stVal
CB Count To AR Block Operated		
	PROT.CntLOGGIO1.SPCSO	stVal
CB Count To AR Block Target		
	PROT.CntLOGGIO1.ISCSO2	stVal

### 1.4 Autoreclose

Reyrolle	DOI	DA Group
In		
	PROT.A79RREC1.Mod	stVal
	PROT.A79RREC1.Beh	stVal
In Progress		
	PROT.A79RREC1.AutoRecSt	stVal
Operated		
	PROT.A79RREC1.Op	general
Out		
	PROT.A79RREC1.Mod	stVal
	PROT.A79RREC1.Beh	stVal
Successful		
	PROT.A79RREC1.AutoRecSt	stVal
Inhibit		
	PROT.A79RREC1.Mod	stVal
	PROT.A79RREC1.Beh	stVal

## 1.5 Broken Conductor

Reyrolle	DOI	DA Group
46BC Enabled		
	PROT.A46BcPTOC1.Mod	stVal
	PROT.A46BcPTOC1.Beh	stVal
46BC Operated		
	PROT.A46BcPTOC1.Op	general
46BC Pickup		
	PROT.A46BcPTOC1.Str	general
Inhibit 46BC		
	PROT.A46BcPTOC1.Mod	stVal
	PROT.A46BcPTOC1.Beh	stVal

## 1.6 CB Fail

Reyrolle	DOI	DA Group
50BF Enabled		
	PROT.A50BfRBRF1.Mod	stVal
	PROT.A50BfRBRF1.Beh	stVal
50BF Pickup		
	PROT.A50BfRBRF1.Str	general
50BF-1		
	PROT.A50BfRBRF1.OpIn	general
50BF-2		
	PROT.A50BfRBRF1.OpEx	general
Inhibit 50BF		
	PROT.A50BfRBRF1.Mod	stVal
	PROT.A50BfRBRF1.Beh	stVal

## 1.7 Change Group

Reyrolle	DOI	DA Group
Active Setting Group 1		
	PROT.LLN0.SGCB	ActSG
	PROT.LLN0.SGCB	LActTm



Active Setting Group 2		
	PROT.LLN0.SGCB	ActSG
	PROT.LLN0.SGCB	LActTm
Active Setting Group 3		
	PROT.LLN0.SGCB	ActSG
	PROT.LLN0.SGCB	LActTm
Active Setting Group 4		
	PROT.LLN0.SGCB	ActSG
	PROT.LLN0.SGCB	LActTm
Number of 61850 Controllable Setting Groups		
	PROT.LLN0.SGCB	NumOfSG

## 1.8 Current Meters

Reyrolle	DOI	DA Group
Sequence Components I Seq NPS		
	MEAS.I_MSQI1.SeqA	c2.instCVal.mag.f
	MEAS.I_MSQI1.SeqA	c2.cVal.mag.f
	MEAS.I_MSQI1.SeqA	c2.units.SIUnit
	MEAS.I_MSQI1.SeqA	c2.units.multiplier
Sequence Components I Seq PPS		
	MEAS.I_MSQI1.SeqA	c1.instCVal.mag.f
	MEAS.I_MSQI1.SeqA	c1.cVal.mag.f
	MEAS.I_MSQI1.SeqA	c1.units.SIUnit
	MEAS.I_MSQI1.SeqA	c1.units.multiplier
Sequence Components I Seq ZPS		
	MEAS.I_MSQI1.SeqA	c3.instCVal.mag.f
	MEAS.I_MSQI1.SeqA	c3.cVal.mag.f
	MEAS.I_MSQI1.SeqA	c3.units.SIUnit
	MEAS.I_MSQI1.SeqA	c3.units.multiplier

## 1.9 Delta Trip Counters

Reyrolle	DOI	DA Group
CB Delta Trip Count		

	PROT.CntDelGGIO1.ISCSO1	stVal
CB Delta Trip Count Enabled		
	PROT.CntDelGGIO1.Mod	stVal
	PROT.CntDelGGIO1.Beh	stVal
CB Delta Trip Count Operated		
	PROT.CntDelGGIO1.SPCSO	stVal
CB Delta Trip Count Target		
	PROT.CntDelGGIO1.ISCSO2	stVal

## 1.10 Derived Earth Fault

Reyrolle	DOI	DA Group
50N-1 Enabled		
	PROT.A50nPTOC1.Mod	stVal
	PROT.A50nPTOC1.Beh	stVal
50N-1 Operated		
	PROT.A50nPTOC1.Op	general
50N-1 Pickup		
	PROT.A50nPTOC1.Str	general
50N-2 Enabled		
	PROT.A50nPTOC2.Mod	stVal
	PROT.A50nPTOC2.Beh	stVal
50N-2 Operated		
	PROT.A50nPTOC2.Op	general
50N-2 Pickup		
	PROT.A50nPTOC2.Str	general
51N-1 Enabled		
	PROT.A51nPTOC1.Mod	stVal
	PROT.A51nPTOC1.Beh	stVal
51N-1 Operated		
	PROT.A51nPTOC1.Op	general
51N-1 Pickup		
	PROT.A51nPTOC1.Str	general
51N-2 Enabled		
	PROT.A51nPTOC2.Mod	stVal
	PROT.A51nPTOC2.Beh	stVal

51N-2 Operated		
	PROT.A51nPTOC2.Op	general
51N-2 Pickup		
	PROT.A51nPTOC2.Str	general
Inhibit 50N-1		
	PROT.A50nPTOC1.Mod	stVal
	PROT.A50nPTOC1.Beh	stVal
Inhibit 50N-2		
	PROT.A50nPTOC2.Mod	stVal
	PROT.A50nPTOC2.Beh	stVal
Inhibit 51N-1		
	PROT.A51nPTOC1.Mod	stVal
	PROT.A51nPTOC1.Beh	stVal
Inhibit 51N-2		
	PROT.A51nPTOC2.Mod	stVal
	PROT.A51nPTOC2.Beh	stVal

## 1.11 Disturbance Recorder

Reyrolle	DOI	DA Group
Fault Number		
	DR.RDRE1.FltNum	stVal
Grid Fault Number		
	DR.RDRE1.GriFltNum	stVal
Recording Made		
	DR.RDRE1.RcdMade	stVal

## 1.12 Double Point Controls (Enhanced Security)

Reyrolle	DOI	DA Group
DPDOes 1 Control		
	CTRL.DPDOesGGIO1.DPCSO	Oper.ctlVal
DPDOes 1 Status		
	CTRL.DPDOesGGIO1.DPCSO	stVal
DPDOes 2 Control		
	CTRL.DPDOesGGIO2.DPCSO	Oper.ctlVal

DPDOes 2 Status		
	CTRL.DPDOesGGIO2.DPCSO	stVal
DPDOes 3 Control		
	CTRL.DPDOesGGIO3.DPCSO	Oper.ctlVal
DPDOes 3 Status		
	CTRL.DPDOesGGIO3.DPCSO	stVal
DPDOes 4 Control		
	CTRL.DPDOesGGIO4.DPCSO	Oper.ctlVal
DPDOes 4 Status		
	CTRL.DPDOesGGIO4.DPCSO	stVal

### 1.13 Double Point Controls (Normal Security)

Reyrolle	DOI	DA Group
DPDOns 1 Control		
	CTRL.DPDOnsGGIO1.DPCSO	Oper.ctlVal
DPDOns 1 Status		
	CTRL.DPDOnsGGIO1.DPCSO	stVal
DPDOns 2 Control		
	CTRL.DPDOnsGGIO2.DPCSO	Oper.ctlVal
DPDOns 2 Status		
	CTRL.DPDOnsGGIO2.DPCSO	stVal
DPDOns 3 Control		
	CTRL.DPDOnsGGIO3.DPCSO	Oper.ctlVal
DPDOns 3 Status		
	CTRL.DPDOnsGGIO3.DPCSO	stVal
DPDOns 4 Control		
	CTRL.DPDOnsGGIO4.DPCSO	Oper.ctlVal
DPDOns 4 Status		
	CTRL.DPDOnsGGIO4.DPCSO	stVal

### 1.14 Double Point Inputs

Reyrolle	DOI	DA Group
DPi8GGIO1 DPCSO 1		
	CTRL.DPi8GGIO1.DPCSO1	ctlVal

DPI8GGIO1 DPCSO 2		
	CTRL.DPI8GGIO1.DPCSO2	ctIVal
DPI8GGIO1 DPCSO 3		
	CTRL.DPI8GGIO1.DPCSO3	ctIVal
DPI8GGIO1 DPCSO 4		
	CTRL.DPI8GGIO1.DPCSO4	ctIVal
DPI8GGIO1 DPCSO 5		
	CTRL.DPI8GGIO1.DPCSO5	ctIVal
DPI8GGIO1 DPCSO 6		
	CTRL.DPI8GGIO1.DPCSO6	ctIVal
DPI8GGIO1 DPCSO 7		
	CTRL.DPI8GGIO1.DPCSO7	ctIVal
DPI8GGIO1 DPCSO 8		
	CTRL.DPI8GGIO1.DPCSO8	ctIVal
DPI8GGIO2 DPCSO 1		
	CTRL.DPI8GGIO2.DPCSO1	ctIVal
DPI8GGIO2 DPCSO 2		
	CTRL.DPI8GGIO2.DPCSO2	ctIVal
DPI8GGIO2 DPCSO 3		
	CTRL.DPI8GGIO2.DPCSO3	ctIVal
DPI8GGIO2 DPCSO 4		
	CTRL.DPI8GGIO2.DPCSO4	ctIVal
DPI8GGIO2 DPCSO 5		
	CTRL.DPI8GGIO2.DPCSO5	ctIVal
DPI8GGIO2 DPCSO 6		
	CTRL.DPI8GGIO2.DPCSO6	ctIVal
DPI8GGIO2 DPCSO 7		
	CTRL.DPI8GGIO2.DPCSO7	ctIVal
DPI8GGIO2 DPCSO 8		
	CTRL.DPI8GGIO2.DPCSO8	ctIVal

## 1.15 Double Point Outputs

Reyrolle	DOI	DA Group
DPo8GGIO1 Ind 1		
	CTRL.DPo8GGIO1.DPCSO1	stIVal

DPo8GGIO1 Ind 2		
	CTRL.DPo8GGIO1.DPCSO2	stVal
DPo8GGIO1 Ind 3		
	CTRL.DPo8GGIO1.DPCSO3	stVal
DPo8GGIO1 Ind 4		
	CTRL.DPo8GGIO1.DPCSO4	stVal
DPo8GGIO1 Ind 5		
	CTRL.DPo8GGIO1.DPCSO5	stVal
DPo8GGIO1 Ind 6		
	CTRL.DPo8GGIO1.DPCSO6	stVal
DPo8GGIO1 Ind 7		
	CTRL.DPo8GGIO1.DPCSO7	stVal
DPo8GGIO1 Ind 8		
	CTRL.DPo8GGIO1.DPCSO8	stVal
DPo8GGIO2 Ind 1		
	CTRL.DPo8GGIO2.DPCSO1	stVal
DPo8GGIO2 Ind 2		
	CTRL.DPo8GGIO2.DPCSO2	stVal
DPo8GGIO2 Ind 3		
	CTRL.DPo8GGIO2.DPCSO3	stVal
DPo8GGIO2 Ind 4		
	CTRL.DPo8GGIO2.DPCSO4	stVal
DPo8GGIO2 Ind 5		
	CTRL.DPo8GGIO2.DPCSO5	stVal
DPo8GGIO2 Ind 6		
	CTRL.DPo8GGIO2.DPCSO6	stVal
DPo8GGIO2 Ind 7		
	CTRL.DPo8GGIO2.DPCSO7	stVal
DPo8GGIO2 Ind 8		
	CTRL.DPo8GGIO2.DPCSO8	stVal

## 1.16 General Trip Information

Reyrolle	DOI	DA Group
CB Trip		
	PROT.PTRC1.Tr	general

CB Trip Count		
	PROT.PTRC1.OpCntRs	stVal
General Operate		
	PROT.PTRC1.Op	general
General Pickup		
	PROT.PTRC1.Str	general
Set CB Trip Count		
	PROT.PTRC1.OpCntRs	Oper.ctlVal

## 1.17 Inrush Detector

Reyrolle	DOI	DA Group
81HBL2 Enabled		
	PROT.A81Hb2PHAR1.Mod	stVal
	PROT.A81Hb2PHAR1.Beh	stVal
81HBL2 PhA Pickup		
	PROT.A81Hb2PHAR1.Str	general
	PROT.A81Hb2PHAR1.Str	phsA
81HBL2 PhB Pickup		
	PROT.A81Hb2PHAR1.Str	general
	PROT.A81Hb2PHAR1.Str	phsB
81HBL2 PhC Pickup		
	PROT.A81Hb2PHAR1.Str	general
	PROT.A81Hb2PHAR1.Str	phsC
Inhibit 81HBL2		
	PROT.A81Hb2PHAR1.Mod	stVal
	PROT.A81Hb2PHAR1.Beh	stVal

## 1.18 Line Check

Reyrolle	DOI	DA Group
50 LC-1 Enabled		
	PROT.A50LCPTOC1.Mod	stVal
	PROT.A50LCPTOC1.Beh	stVal
50 LC-1 Operated		
	PROT.A50LCPTOC1.Op	general

50 LC-1 PhA Pickup		
	PROT.A50LCPTOC1.Str	general
	PROT.A50LCPTOC1.Str	phsA
50 LC-1 PhB Pickup		
	PROT.A50LCPTOC1.Str	general
	PROT.A50LCPTOC1.Str	phsB
50 LC-1 PhC Pickup		
	PROT.A50LCPTOC1.Str	general
	PROT.A50LCPTOC1.Str	phsC
50 LC-2 Enabled		
	PROT.A50LCPTOC2.Mod	stVal
	PROT.A50LCPTOC2.Beh	stVal
50 LC-2 Operated		
	PROT.A50LCPTOC2.Op	general
50 LC-2 PhA Pickup		
	PROT.A50LCPTOC2.Str	general
	PROT.A50LCPTOC2.Str	phsA
50 LC-2 PhB Pickup		
	PROT.A50LCPTOC2.Str	general
	PROT.A50LCPTOC2.Str	phsB
50 LC-2 PhC Pickup		
	PROT.A50LCPTOC2.Str	general
	PROT.A50LCPTOC2.Str	phsC
50G LC-1 Enabled		
	PROT.A50gLCPTOC1.Mod	stVal
	PROT.A50gLCPTOC1.Beh	stVal
50G LC-1 Operated		
	PROT.A50gLCPTOC1.Op	general
50G LC-1 Pickup		
	PROT.A50gLCPTOC1.Str	general
50G LC-2 Enabled		
	PROT.A50gLCPTOC2.Mod	stVal
	PROT.A50gLCPTOC2.Beh	stVal
50G LC-2 Operated		
	PROT.A50gLCPTOC2.Op	general
50G LC-2 Pickup		
	PROT.A50gLCPTOC2.Str	general



50SEF LC-1 Enabled		
	PROT.A50SLCPTOC1.Mod	stVal
	PROT.A50SLCPTOC1.Beh	stVal
50SEF LC-1 Operated		
	PROT.A50SLCPTOC1.Op	general
50SEF LC-1 Pickup		
	PROT.A50SLCPTOC1.Str	general
50SEF LC-2 Enabled		
	PROT.A50SLCPTOC2.Mod	stVal
	PROT.A50SLCPTOC2.Beh	stVal
50SEF LC-2 Operated		
	PROT.A50SLCPTOC2.Op	general
50SEF LC-2 Pickup		
	PROT.A50SLCPTOC2.Str	general
Inhibit 50 LC-1		
	PROT.A50LCPTOC1.Mod	stVal
	PROT.A50LCPTOC1.Beh	stVal
Inhibit 50 LC-2		
	PROT.A50LCPTOC2.Mod	stVal
	PROT.A50LCPTOC2.Beh	stVal
Inhibit 50G LC-1		
	PROT.A50gLCPTOC1.Mod	stVal
	PROT.A50gLCPTOC1.Beh	stVal
Inhibit 50G LC-2		
	PROT.A50gLCPTOC2.Mod	stVal
	PROT.A50gLCPTOC2.Beh	stVal
Inhibit 50SEF LC-1		
	PROT.A50SLCPTOC1.Mod	stVal
	PROT.A50SLCPTOC1.Beh	stVal
Inhibit 50SEF LC-2		
	PROT.A50SLCPTOC2.Mod	stVal
	PROT.A50SLCPTOC2.Beh	stVal

## 1.19 Measured Earth Fault

Reyrolle	DOI	DA Group
----------	-----	----------

50G-1 Enabled		
	PROT.A50gPTOC1.Mod	stVal
	PROT.A50gPTOC1.Beh	stVal
50G-1 Operated		
	PROT.A50gPTOC1.Op	general
50G-1 Pickup		
	PROT.A50gPTOC1.Str	general
50G-2 Enabled		
	PROT.A50gPTOC2.Mod	stVal
	PROT.A50gPTOC2.Beh	stVal
50G-2 Operated		
	PROT.A50gPTOC2.Op	general
50G-2 Pickup		
	PROT.A50gPTOC2.Str	general
51G-1 Enabled		
	PROT.A51gPTOC1.Mod	stVal
	PROT.A51gPTOC1.Beh	stVal
51G-1 Operated		
	PROT.A51gPTOC1.Op	general
51G-1 Pickup		
	PROT.A51gPTOC1.Str	general
51G-2 Enabled		
	PROT.A51gPTOC2.Mod	stVal
	PROT.A51gPTOC2.Beh	stVal
51G-2 Operated		
	PROT.A51gPTOC2.Op	general
51G-2 Pickup		
	PROT.A51gPTOC2.Str	general
Inhibit 50G-1		
	PROT.A50gPTOC1.Mod	stVal
	PROT.A50gPTOC1.Beh	stVal
Inhibit 50G-2		
	PROT.A50gPTOC2.Mod	stVal
	PROT.A50gPTOC2.Beh	stVal
Inhibit 51G-1		
	PROT.A51gPTOC1.Mod	stVal
	PROT.A51gPTOC1.Beh	stVal

Inhibit 51G-2		
	PROT.A51gPTOC2.Mod	stVal
	PROT.A51gPTOC2.Beh	stVal

## 1.20 Measurement

Reyrolle	DOI	DA Group
Calculated Earth Current(In)		
	PROT.RFLT1.A	res.cVal.mag.f
	MEAS.MMXU1.A	res.cVal.mag.f
Frequency(F)		
	MEAS.MMXU1.Hz	mag.f
la		
	PROT.RFLT1.A	phsA.cVal.mag.f
	MEAS.MMXU1.A	phsA.cVal.mag.f
lb		
	PROT.RFLT1.A	phsB.cVal.mag.f
	MEAS.MMXU1.A	phsB.cVal.mag.f
lc		
	PROT.RFLT1.A	phsC.cVal.mag.f
	MEAS.MMXU1.A	phsC.cVal.mag.f
Measured Earth Current(Ig)		
	PROT.RFLT1.A	neut.cVal.mag.f
	MEAS.MMXU1.A	neut.cVal.mag.f

## 1.21 Measurement (Har2)

Reyrolle	DOI	DA Group
Har2 la		
	MEAS.Har2MMXU1.A	phsA.cVal.mag.f
Har2 lb		
	MEAS.Har2MMXU1.A	phsB.cVal.mag.f
Har2 lc		
	MEAS.Har2MMXU1.A	phsC.cVal.mag.f

## 1.22 Measurement (Max)

Reyrolle	DOI	DA Group
Max Frequency(F)		
	MEAS.MaxMMXU1.Hz	mag.f
Max Ia		
	MEAS.MaxMMXU1.A	phsA.cVal.mag.f
Max Ib		
	MEAS.MaxMMXU1.A	phsB.cVal.mag.f
Max Ic		
	MEAS.MaxMMXU1.A	phsC.cVal.mag.f

## 1.23 Measurement (Mean)

Reyrolle	DOI	DA Group
Mean Frequency(F)		
	MEAS.MeanMMXU1.Hz	mag.f
Mean Ia		
	MEAS.MeanMMXU1.A	phsA.cVal.mag.f
Mean Ib		
	MEAS.MeanMMXU1.A	phsB.cVal.mag.f
Mean Ic		
	MEAS.MeanMMXU1.A	phsC.cVal.mag.f

## 1.24 Measurement (Min)

Reyrolle	DOI	DA Group
Min Frequency(F)		
	MEAS.MinMMXU1.Hz	mag.f
Min Ia		
	MEAS.MinMMXU1.A	phsA.cVal.mag.f
Min Ib		
	MEAS.MinMMXU1.A	phsB.cVal.mag.f
Min Ic		
	MEAS.MinMMXU1.A	phsC.cVal.mag.f

## 1.25 NPS Overcurrent

Reyrolle	DOI	DA Group
46DT Enabled		
	PROT.A46DtPTOC1.Mod	stVal
	PROT.A46DtPTOC1.Beh	stVal
46DT Operated		
	PROT.A46DtPTOC1.Op	general
46DT Pickup		
	PROT.A46DtPTOC1.Str	general
46IT Enabled		
	PROT.A46ItPTOC1.Mod	stVal
	PROT.A46ItPTOC1.Beh	stVal
46IT Operated		
	PROT.A46ItPTOC1.Op	general
46IT Pickup		
	PROT.A46ItPTOC1.Str	general
Inhibit 46DT		
	PROT.A46DtPTOC1.Mod	stVal
	PROT.A46DtPTOC1.Beh	stVal
Inhibit 46IT		
	PROT.A46ItPTOC1.Mod	stVal
	PROT.A46ItPTOC1.Beh	stVal

## 1.26 Overcurrent

Reyrolle	DOI	DA Group
50-1 Enabled		
	PROT.A50PTOC1.Mod	stVal
	PROT.A50PTOC1.Beh	stVal
50-1 Operated		
	PROT.A50PTOC1.Op	general
50-1 PhA Pickup		
	PROT.A50PTOC1.Str	general
	PROT.A50PTOC1.Str	phsA
50-1 PhB Pickup		
	PROT.A50PTOC1.Str	general

	PROT.A50PTOC1.Str	phsB
50-1 PhC Pickup		
	PROT.A50PTOC1.Str	general
	PROT.A50PTOC1.Str	phsC
50-2 Enabled		
	PROT.A50PTOC2.Mod	stVal
	PROT.A50PTOC2.Beh	stVal
50-2 Operated		
	PROT.A50PTOC2.Op	general
50-2 PhA Pickup		
	PROT.A50PTOC2.Str	general
	PROT.A50PTOC2.Str	phsA
50-2 PhB Pickup		
	PROT.A50PTOC2.Str	general
	PROT.A50PTOC2.Str	phsB
50-2 PhC Pickup		
	PROT.A50PTOC2.Str	general
	PROT.A50PTOC2.Str	phsC
51-1 Enabled		
	PROT.A51PTOC1.Mod	stVal
	PROT.A51PTOC1.Beh	stVal
51-1 Operated		
	PROT.A51PTOC1.Op	general
51-1 PhA Pickup		
	PROT.A51PTOC1.Str	general
	PROT.A51PTOC1.Str	phsA
51-1 PhB Pickup		
	PROT.A51PTOC1.Str	general
	PROT.A51PTOC1.Str	phsB
51-1 PhC Pickup		
	PROT.A51PTOC1.Str	general
	PROT.A51PTOC1.Str	phsC
51-2 Enabled		
	PROT.A51PTOC2.Mod	stVal
	PROT.A51PTOC2.Beh	stVal
51-2 Operated		
	PROT.A51PTOC2.Op	general

51-2 PhA Pickup		
	PROT.A51PTOC2.Str	general
	PROT.A51PTOC2.Str	phsA
51-2 PhB Pickup		
	PROT.A51PTOC2.Str	general
	PROT.A51PTOC2.Str	phsB
51-2 PhC Pickup		
	PROT.A51PTOC2.Str	general
	PROT.A51PTOC2.Str	phsC
Inhibit 50-1		
	PROT.A50PTOC1.Mod	stVal
	PROT.A50PTOC1.Beh	stVal
Inhibit 50-2		
	PROT.A50PTOC2.Mod	stVal
	PROT.A50PTOC2.Beh	stVal
Inhibit 51-1		
	PROT.A51PTOC1.Mod	stVal
	PROT.A51PTOC1.Beh	stVal
Inhibit 51-2		
	PROT.A51PTOC2.Mod	stVal
	PROT.A51PTOC2.Beh	stVal

## 1.27 Restricted Earth Fault

Reyrolle	DOI	DA Group
64H Enabled		
	PROT.A64hPTOC1.Mod	stVal
	PROT.A64hPTOC1.Beh	stVal
64H Operated		
	PROT.A64hPTOC1.Op	general
64H Pickup		
	PROT.A64hPTOC1.Str	general
Inhibit 64H		
	PROT.A64hPTOC1.Mod	stVal
	PROT.A64hPTOC1.Beh	stVal

## 1.28 Sensitive Earth Fault

Reyrolle	DOI	DA Group
50SEF-1 Enabled		
	PROT.A50SefPTOC1.Mod	stVal
	PROT.A50SefPTOC1.Beh	stVal
50SEF-1 Operated		
	PROT.A50SefPTOC1.Op	general
50SEF-1 Pickup		
	PROT.A50SefPTOC1.Str	general
50SEF-2 Enabled		
	PROT.A50SefPTOC2.Mod	stVal
	PROT.A50SefPTOC2.Beh	stVal
50SEF-2 Operated		
	PROT.A50SefPTOC2.Op	general
50SEF-2 Pickup		
	PROT.A50SefPTOC2.Str	general
51SEF-1 Enabled		
	PROT.A51SefPTOC1.Mod	stVal
	PROT.A51SefPTOC1.Beh	stVal
51SEF-1 Operated		
	PROT.A51SefPTOC1.Op	general
51SEF-1 Pickup		
	PROT.A51SefPTOC1.Str	general
51SEF-2 Enabled		
	PROT.A51SefPTOC2.Mod	stVal
	PROT.A51SefPTOC2.Beh	stVal
51SEF-2 Operated		
	PROT.A51SefPTOC2.Op	general
51SEF-2 Pickup		
	PROT.A51SefPTOC2.Str	general
Inhibit 50SEF-1		
	PROT.A50SefPTOC1.Mod	stVal
	PROT.A50SefPTOC1.Beh	stVal
Inhibit 50SEF-2		
	PROT.A50SefPTOC2.Mod	stVal
	PROT.A50SefPTOC2.Beh	stVal



Inhibit 51SEF-1		
	PROT.A51SefPTOC1.Mod	stVal
	PROT.A51SefPTOC1.Beh	stVal
Inhibit 51SEF-2		
	PROT.A51SefPTOC2.Mod	stVal
	PROT.A51SefPTOC2.Beh	stVal

## 1.29 Single Point Controls (Enhanced Security)

Reyrolle	DOI	DA Group
SPDOes 1 Control		
	CTRL.SPDOesGGIO1.SPCSO	Oper.ctlVal
SPDOes 1 Status		
	CTRL.SPDOesGGIO1.SPCSO	stVal
SPDOes 2 Control		
	CTRL.SPDOesGGIO2.SPCSO	Oper.ctlVal
SPDOes 2 Status		
	CTRL.SPDOesGGIO2.SPCSO	stVal
SPDOes 3 Control		
	CTRL.SPDOesGGIO3.SPCSO	Oper.ctlVal
SPDOes 3 Status		
	CTRL.SPDOesGGIO3.SPCSO	stVal
SPDOes 4 Control		
	CTRL.SPDOesGGIO4.SPCSO	Oper.ctlVal
SPDOes 4 Status		
	CTRL.SPDOesGGIO4.SPCSO	stVal

## 1.30 Single Point Controls (Normal Security)

Reyrolle	DOI	DA Group
SPDOns 1 Control		
	CTRL.SPDOnsGGIO1.SPCSO	Oper.ctlVal
SPDOns 1 Status		
	CTRL.SPDOnsGGIO1.SPCSO	stVal
SPDOns 2 Control		
	CTRL.SPDOnsGGIO2.SPCSO	Oper.ctlVal

SPDOs 2 Status		
	CTRL.SPDOsGGIO2.SPCSO	stVal
SPDOs 3 Control		
	CTRL.SPDOsGGIO3.SPCSO	Oper.ctlVal
SPDOs 3 Status		
	CTRL.SPDOsGGIO3.SPCSO	stVal
SPDOs 4 Control		
	CTRL.SPDOsGGIO4.SPCSO	Oper.ctlVal
SPDOs 4 Status		
	CTRL.SPDOsGGIO4.SPCSO	stVal

### 1.31 Single Point Inputs

Reyrolle	DOI	DA Group
SPi64GGIO1 SPCSO 1		
	CTRL.SPi64GGIO1.SPCSO1	ctlVal
SPi64GGIO1 SPCSO 10		
	CTRL.SPi64GGIO1.SPCSO10	ctlVal
SPi64GGIO1 SPCSO 11		
	CTRL.SPi64GGIO1.SPCSO11	ctlVal
SPi64GGIO1 SPCSO 12		
	CTRL.SPi64GGIO1.SPCSO12	ctlVal
SPi64GGIO1 SPCSO 13		
	CTRL.SPi64GGIO1.SPCSO13	ctlVal
SPi64GGIO1 SPCSO 14		
	CTRL.SPi64GGIO1.SPCSO14	ctlVal
SPi64GGIO1 SPCSO 15		
	CTRL.SPi64GGIO1.SPCSO15	ctlVal
SPi64GGIO1 SPCSO 16		
	CTRL.SPi64GGIO1.SPCSO16	ctlVal
SPi64GGIO1 SPCSO 17		
	CTRL.SPi64GGIO1.SPCSO17	ctlVal
SPi64GGIO1 SPCSO 18		
	CTRL.SPi64GGIO1.SPCSO18	ctlVal
SPi64GGIO1 SPCSO 19		
	CTRL.SPi64GGIO1.SPCSO19	ctlVal

SPi64GGIO1 SPCSO 2		
	CTRL.SPi64GGIO1.SPCSO2	ctIVal
SPi64GGIO1 SPCSO 20		
	CTRL.SPi64GGIO1.SPCSO20	ctIVal
SPi64GGIO1 SPCSO 21		
	CTRL.SPi64GGIO1.SPCSO21	ctIVal
SPi64GGIO1 SPCSO 22		
	CTRL.SPi64GGIO1.SPCSO22	ctIVal
SPi64GGIO1 SPCSO 23		
	CTRL.SPi64GGIO1.SPCSO23	ctIVal
SPi64GGIO1 SPCSO 24		
	CTRL.SPi64GGIO1.SPCSO24	ctIVal
SPi64GGIO1 SPCSO 25		
	CTRL.SPi64GGIO1.SPCSO25	ctIVal
SPi64GGIO1 SPCSO 26		
	CTRL.SPi64GGIO1.SPCSO26	ctIVal
SPi64GGIO1 SPCSO 27		
	CTRL.SPi64GGIO1.SPCSO27	ctIVal
SPi64GGIO1 SPCSO 28		
	CTRL.SPi64GGIO1.SPCSO28	ctIVal
SPi64GGIO1 SPCSO 29		
	CTRL.SPi64GGIO1.SPCSO29	ctIVal
SPi64GGIO1 SPCSO 3		
	CTRL.SPi64GGIO1.SPCSO3	ctIVal
SPi64GGIO1 SPCSO 30		
	CTRL.SPi64GGIO1.SPCSO30	ctIVal
SPi64GGIO1 SPCSO 31		
	CTRL.SPi64GGIO1.SPCSO31	ctIVal
SPi64GGIO1 SPCSO 32		
	CTRL.SPi64GGIO1.SPCSO32	ctIVal
SPi64GGIO1 SPCSO 33		
	CTRL.SPi64GGIO1.SPCSO33	ctIVal
SPi64GGIO1 SPCSO 34		
	CTRL.SPi64GGIO1.SPCSO34	ctIVal
SPi64GGIO1 SPCSO 35		
	CTRL.SPi64GGIO1.SPCSO35	ctIVal
SPi64GGIO1 SPCSO 36		

	CTRL.SPi64GGIO1.SPCSO36	ctlVal
SPI64GGIO1 SPCSO 37		
	CTRL.SPi64GGIO1.SPCSO37	ctlVal
SPI64GGIO1 SPCSO 38		
	CTRL.SPi64GGIO1.SPCSO38	ctlVal
SPI64GGIO1 SPCSO 39		
	CTRL.SPi64GGIO1.SPCSO39	ctlVal
SPI64GGIO1 SPCSO 4		
	CTRL.SPi64GGIO1.SPCSO4	ctlVal
SPI64GGIO1 SPCSO 40		
	CTRL.SPi64GGIO1.SPCSO40	ctlVal
SPI64GGIO1 SPCSO 41		
	CTRL.SPi64GGIO1.SPCSO41	ctlVal
SPI64GGIO1 SPCSO 42		
	CTRL.SPi64GGIO1.SPCSO42	ctlVal
SPI64GGIO1 SPCSO 43		
	CTRL.SPi64GGIO1.SPCSO43	ctlVal
SPI64GGIO1 SPCSO 44		
	CTRL.SPi64GGIO1.SPCSO44	ctlVal
SPI64GGIO1 SPCSO 45		
	CTRL.SPi64GGIO1.SPCSO45	ctlVal
SPI64GGIO1 SPCSO 46		
	CTRL.SPi64GGIO1.SPCSO46	ctlVal
SPI64GGIO1 SPCSO 47		
	CTRL.SPi64GGIO1.SPCSO47	ctlVal
SPI64GGIO1 SPCSO 48		
	CTRL.SPi64GGIO1.SPCSO48	ctlVal
SPI64GGIO1 SPCSO 49		
	CTRL.SPi64GGIO1.SPCSO49	ctlVal
SPI64GGIO1 SPCSO 5		
	CTRL.SPi64GGIO1.SPCSO5	ctlVal
SPI64GGIO1 SPCSO 50		
	CTRL.SPi64GGIO1.SPCSO50	ctlVal
SPI64GGIO1 SPCSO 51		
	CTRL.SPi64GGIO1.SPCSO51	ctlVal
SPI64GGIO1 SPCSO 52		
	CTRL.SPi64GGIO1.SPCSO52	ctlVal

SPi64GGIO1 SPCSO 53		
	CTRL.SPi64GGIO1.SPCSO53	ctIVal
SPi64GGIO1 SPCSO 54		
	CTRL.SPi64GGIO1.SPCSO54	ctIVal
SPi64GGIO1 SPCSO 55		
	CTRL.SPi64GGIO1.SPCSO55	ctIVal
SPi64GGIO1 SPCSO 56		
	CTRL.SPi64GGIO1.SPCSO56	ctIVal
SPi64GGIO1 SPCSO 57		
	CTRL.SPi64GGIO1.SPCSO57	ctIVal
SPi64GGIO1 SPCSO 58		
	CTRL.SPi64GGIO1.SPCSO58	ctIVal
SPi64GGIO1 SPCSO 59		
	CTRL.SPi64GGIO1.SPCSO59	ctIVal
SPi64GGIO1 SPCSO 6		
	CTRL.SPi64GGIO1.SPCSO6	ctIVal
SPi64GGIO1 SPCSO 60		
	CTRL.SPi64GGIO1.SPCSO60	ctIVal
SPi64GGIO1 SPCSO 61		
	CTRL.SPi64GGIO1.SPCSO61	ctIVal
SPi64GGIO1 SPCSO 62		
	CTRL.SPi64GGIO1.SPCSO62	ctIVal
SPi64GGIO1 SPCSO 63		
	CTRL.SPi64GGIO1.SPCSO63	ctIVal
SPi64GGIO1 SPCSO 64		
	CTRL.SPi64GGIO1.SPCSO64	ctIVal
SPi64GGIO1 SPCSO 7		
	CTRL.SPi64GGIO1.SPCSO7	ctIVal
SPi64GGIO1 SPCSO 8		
	CTRL.SPi64GGIO1.SPCSO8	ctIVal
SPi64GGIO1 SPCSO 9		
	CTRL.SPi64GGIO1.SPCSO9	ctIVal

### 1.32 Single Point Outputs

Reyrolle	DOI	DA Group
----------	-----	----------

SPo32GGIO1 Ind 1		
	CTRL.SP032GGIO1.Ind1	stVal
SPo32GGIO1 Ind 10		
	CTRL.SP032GGIO1.Ind10	stVal
SPo32GGIO1 Ind 11		
	CTRL.SP032GGIO1.Ind11	stVal
SPo32GGIO1 Ind 12		
	CTRL.SP032GGIO1.Ind12	stVal
SPo32GGIO1 Ind 13		
	CTRL.SP032GGIO1.Ind13	stVal
SPo32GGIO1 Ind 14		
	CTRL.SP032GGIO1.Ind14	stVal
SPo32GGIO1 Ind 15		
	CTRL.SP032GGIO1.Ind15	stVal
SPo32GGIO1 Ind 16		
	CTRL.SP032GGIO1.Ind16	stVal
SPo32GGIO1 Ind 17		
	CTRL.SP032GGIO1.Ind17	stVal
SPo32GGIO1 Ind 18		
	CTRL.SP032GGIO1.Ind18	stVal
SPo32GGIO1 Ind 19		
	CTRL.SP032GGIO1.Ind19	stVal
SPo32GGIO1 Ind 2		
	CTRL.SP032GGIO1.Ind2	stVal
SPo32GGIO1 Ind 20		
	CTRL.SP032GGIO1.Ind20	stVal
SPo32GGIO1 Ind 21		
	CTRL.SP032GGIO1.Ind21	stVal
SPo32GGIO1 Ind 22		
	CTRL.SP032GGIO1.Ind22	stVal
SPo32GGIO1 Ind 23		
	CTRL.SP032GGIO1.Ind23	stVal
SPo32GGIO1 Ind 24		
	CTRL.SP032GGIO1.Ind24	stVal
SPo32GGIO1 Ind 25		
	CTRL.SP032GGIO1.Ind25	stVal
SPo32GGIO1 Ind 26		

	CTRL.SP032GGIO1.Ind26	stVal
SPo32GGIO1 Ind 27		
	CTRL.SP032GGIO1.Ind27	stVal
SPo32GGIO1 Ind 28		
	CTRL.SP032GGIO1.Ind28	stVal
SPo32GGIO1 Ind 29		
	CTRL.SP032GGIO1.Ind29	stVal
SPo32GGIO1 Ind 3		
	CTRL.SP032GGIO1.Ind3	stVal
SPo32GGIO1 Ind 30		
	CTRL.SP032GGIO1.Ind30	stVal
SPo32GGIO1 Ind 31		
	CTRL.SP032GGIO1.Ind31	stVal
SPo32GGIO1 Ind 32		
	CTRL.SP032GGIO1.Ind32	stVal
SPo32GGIO1 Ind 4		
	CTRL.SP032GGIO1.Ind4	stVal
SPo32GGIO1 Ind 5		
	CTRL.SP032GGIO1.Ind5	stVal
SPo32GGIO1 Ind 6		
	CTRL.SP032GGIO1.Ind6	stVal
SPo32GGIO1 Ind 7		
	CTRL.SP032GGIO1.Ind7	stVal
SPo32GGIO1 Ind 8		
	CTRL.SP032GGIO1.Ind8	stVal
SPo32GGIO1 Ind 9		
	CTRL.SP032GGIO1.Ind9	stVal

### 1.33 Thermal

Reyrolle	DOI	DA Group
49 Enabled		
	PROT.A49PTTR1.Mod	stVal
	PROT.A49PTTR1.Beh	stVal
49 Operated		
	PROT.A49PTTR1.Op	general

49 Pickup		
	PROT.A49PTTR1.Str	general
49 Thermal Alarm		
	PROT.A49PTTR1.AlmThm	stVal
Inhibit 49		
	PROT.A49PTTR1.Mod	stVal
	PROT.A49PTTR1.Beh	stVal

### 1.34 Under Current

Reyrolle	DOI	DA Group
37-1 Enabled		
	PROT.A37PTUC1.Mod	stVal
	PROT.A37PTUC1.Beh	stVal
37-1 Operated		
	PROT.A37PTUC1.Op	general
37-1 PhA Pickup		
	PROT.A37PTUC1.Str	general
	PROT.A37PTUC1.Str	phsA
37-1 PhB Pickup		
	PROT.A37PTUC1.Str	general
	PROT.A37PTUC1.Str	phsB
37-1 PhC Pickup		
	PROT.A37PTUC1.Str	general
	PROT.A37PTUC1.Str	phsC
37-2 Enabled		
	PROT.A37PTUC2.Mod	stVal
	PROT.A37PTUC2.Beh	stVal
37-2 Operated		
	PROT.A37PTUC2.Op	general
37-2 PhA Pickup		
	PROT.A37PTUC2.Str	general
	PROT.A37PTUC2.Str	phsA
37-2 PhB Pickup		
	PROT.A37PTUC2.Str	general
	PROT.A37PTUC2.Str	phsB



37-2 PhC Pickup		
	PROT.A37PTUC2.Str	general
	PROT.A37PTUC2.Str	phsC
37G-1 Enabled		
	PROT.A37gPTUC1.Mod	stVal
	PROT.A37gPTUC1.Beh	stVal
37G-1 Operated		
	PROT.A37gPTUC1.Op	general
37G-1 Pickup		
	PROT.A37gPTUC1.Str	general
37G-2 Enabled		
	PROT.A37gPTUC2.Mod	stVal
	PROT.A37gPTUC2.Beh	stVal
37G-2 Operated		
	PROT.A37gPTUC2.Op	general
37G-2 Pickup		
	PROT.A37gPTUC2.Str	general
37SEF-1 Enabled		
	PROT.A37SefPTUC1.Mod	stVal
	PROT.A37SefPTUC1.Beh	stVal
37SEF-1 Operated		
	PROT.A37SefPTUC1.Op	general
37SEF-1 Pickup		
	PROT.A37SefPTUC1.Str	general
37SEF-2 Enabled		
	PROT.A37SefPTUC2.Mod	stVal
	PROT.A37SefPTUC2.Beh	stVal
37SEF-2 Operated		
	PROT.A37SefPTUC2.Op	general
37SEF-2 Pickup		
	PROT.A37SefPTUC2.Str	general
Inhibit 37-1		
	PROT.A37PTUC1.Mod	stVal
	PROT.A37PTUC1.Beh	stVal
Inhibit 37-2		
	PROT.A37PTUC2.Mod	stVal
	PROT.A37PTUC2.Beh	stVal

Inhibit 37G-1		
	PROT.A37gPTUC1.Mod	stVal
	PROT.A37gPTUC1.Beh	stVal
Inhibit 37G-2		
	PROT.A37gPTUC2.Mod	stVal
	PROT.A37gPTUC2.Beh	stVal
Inhibit 37SEF-1		
	PROT.A37SefPTUC1.Mod	stVal
	PROT.A37SefPTUC1.Beh	stVal
Inhibit 37SEF-2		
	PROT.A37SefPTUC2.Mod	stVal
	PROT.A37SefPTUC2.Beh	stVal

## 2 IEC 61850 -> Reyrolle

### 2.1 PROT

#### 2.1.1 A37gPTUC1

Beh		
	stVal	Out of Service
		Inhibit 37G-1
		37G-1 Enabled
Health		
	stVal	Protection Healthy
Mod		
	stVal	Inhibit 37G-1
		37G-1 Enabled
Op		
	general	37G-1 Operated
Str		
	dirGeneral	Non-Directional
	general	37G-1 Pickup

#### 2.1.2 A37gPTUC2

Beh		
	stVal	Out of Service
		Inhibit 37G-2
		37G-2 Enabled
Health		
	stVal	Protection Healthy
Mod		
	stVal	Inhibit 37G-2
		37G-2 Enabled
Op		
	general	37G-2 Operated
Str		
	dirGeneral	Non-Directional
	general	37G-2 Pickup

**2.1.3 A37PTUC1**

Beh		
	stVal	Out of Service
		Inhibit 37-1
		37-1 Enabled
Health		
	stVal	Protection Healthy
Mod		
	stVal	Inhibit 37-1
		37-1 Enabled
Op		
	general	37-1 Operated
Str		
	dirGeneral	Non-Directional
	dirPhsA	Non-Directional
	dirPhsB	Non-Directional
	dirPhsC	Non-Directional
	general	37-1 PhA Pickup
		37-1 PhB Pickup
		37-1 PhC Pickup
	phsA	37-1 PhA Pickup
	phsB	37-1 PhB Pickup
	phsC	37-1 PhC Pickup

**2.1.4 A37PTUC2**

Beh		
	stVal	Out of Service
		Inhibit 37-2
		37-2 Enabled
Health		
	stVal	Protection Healthy
Mod		
	stVal	Inhibit 37-2
		37-2 Enabled
Op		
	general	37-2 Operated

Str		
	dirGeneral	Non-Directional
	dirPhsA	Non-Directional
	dirPhsB	Non-Directional
	dirPhsC	Non-Directional
	general	37-2 PhA Pickup
		37-2 PhB Pickup
		37-2 PhC Pickup
	phsA	37-2 PhA Pickup
	phsB	37-2 PhB Pickup
	phsC	37-2 PhC Pickup

### 2.1.5 A37SefPTUC1

Beh		
	stVal	Out of Service
		Inhibit 37SEF-1
		37SEF-1 Enabled
Health		
	stVal	Protection Healthy
Mod		
	stVal	Inhibit 37SEF-1
		37SEF-1 Enabled
Op		
	general	37SEF-1 Operated
Str		
	dirGeneral	Non-Directional
	general	37SEF-1 Pickup

### 2.1.6 A37SefPTUC2

Beh		
	stVal	Out of Service
		Inhibit 37SEF-2
		37SEF-2 Enabled
Health		
	stVal	Protection Healthy
Mod		

	stVal	Inhibit 37SEF-2
		37SEF-2 Enabled
Op		
	general	37SEF-2 Operated
Str		
	dirGeneral	Non-Directional
	general	37SEF-2 Pickup

### 2.1.7 A46BcPTOC1

Beh		
	stVal	Out of Service
		Inhibit 46BC
		46BC Enabled
Health		
	stVal	Protection Healthy
Mod		
	stVal	Inhibit 46BC
		46BC Enabled
Op		
	general	46BC Operated
Str		
	dirGeneral	Non-Directional
	general	46BC Pickup

### 2.1.8 A46DtPTOC1

Beh		
	stVal	Out of Service
		Inhibit 46DT
		46DT Enabled
Health		
	stVal	Protection Healthy
Mod		
	stVal	Inhibit 46DT
		46DT Enabled
Op		
	general	46DT Operated

Str		
	dirGeneral	Non-Directional
	general	46DT Pickup

**2.1.9 A46ItPTOC1**

Beh		
	stVal	Out of Service
		Inhibit 46IT
		46IT Enabled
Health		
	stVal	Protection Healthy
Mod		
	stVal	Inhibit 46IT
		46IT Enabled
Op		
	general	46IT Operated
Str		
	dirGeneral	Non-Directional
	general	46IT Pickup

**2.1.10 A49PTTR1**

AlmThm		
	stVal	49 Thermal Alarm
Beh		
	stVal	Inhibit 49
		49 Enabled
		Protection Active
		Out of Service
Health		
	stVal	Protection Healthy
Mod		
	stVal	Inhibit 49
		49 Enabled
Op		
	general	49 Operated
Str		

	dirGeneral	Non-Directional
	general	49 Pickup

**2.1.11 A50AFDSARC1**

Beh		
	stVal	Counter Target Enabled
		Out of Service
FACntRs		
	stVal	Counter Target
FADet		
	stVal	Counter Target FADet
Health		
	stVal	Protection Healthy
Mod		
	stVal	Counter Target Enabled

**2.1.12 A50AFDSARC2**

Beh		
	stVal	Counter Target Enabled
		Out of Service
FACntRs		
	stVal	Counter Target
FADet		
	stVal	Counter Target FADet
Health		
	stVal	Protection Healthy
Mod		
	stVal	Counter Target Enabled

**2.1.13 A50AFDSARC3**

Beh		
	stVal	Counter Target Enabled
		Out of Service
FACntRs		
	stVal	Counter Target
FADet		



	stVal	Counter Target FADet
Health		
	stVal	Protection Healthy
Mod		
	stVal	Counter Target Enabled

**2.1.14 A50AFDSARC4**

Beh		
	stVal	Counter Target Enabled
		Out of Service
FACntRs		
	stVal	Counter Target
FADet		
	stVal	Counter Target FADet
Health		
	stVal	Protection Healthy
Mod		
	stVal	Counter Target Enabled

**2.1.15 A50AFDSARC5**

Beh		
	stVal	Counter Target Enabled
		Out of Service
FACntRs		
	stVal	Counter Target
FADet		
	stVal	Counter Target FADet
Health		
	stVal	Protection Healthy
Mod		
	stVal	Counter Target Enabled

**2.1.16 A50AFDSARC6**

Beh		
	stVal	Counter Target Enabled
		Out of Service

FACntRs		
	stVal	Counter Target
FADet		
	stVal	Counter Target FADet
Health		
	stVal	Protection Healthy
Mod		
	stVal	Counter Target Enabled

### 2.1.17 A50BfRBRF1

Beh		
	stVal	Inhibit 50BF
		50BF Enabled
		Protection Active
		Out of Service
Health		
	stVal	Protection Healthy
Mod		
	stVal	Inhibit 50BF
		50BF Enabled
OpEx		
	general	50BF-2
OpIn		
	general	50BF-1
Str		
	dirGeneral	Non-Directional
	general	50BF Pickup

### 2.1.18 A50gLCPTOC1

Beh		
	stVal	Out of Service
		Inhibit 50G LC-1
		50G LC-1 Enabled
Health		
	stVal	Protection Healthy
Mod		

	stVal	Inhibit 50G LC-1
		50G LC-1 Enabled
Op		
	general	50G LC-1 Operated
Str		
	dirGeneral	Non-Directional
	general	50G LC-1 Pickup

### 2.1.19 A50gLCPTOC2

Beh		
	stVal	Out of Service
		Inhibit 50G LC-2
		50G LC-2 Enabled
Health		
	stVal	Protection Healthy
Mod		
	stVal	Inhibit 50G LC-2
		50G LC-2 Enabled
Op		
	general	50G LC-2 Operated
Str		
	dirGeneral	Non-Directional
	general	50G LC-2 Pickup

### 2.1.20 A50gPTOC1

Beh		
	stVal	Out of Service
		Inhibit 50G-1
		50G-1 Enabled
Health		
	stVal	Protection Healthy
Mod		
	stVal	Inhibit 50G-1
		50G-1 Enabled
Op		
	general	50G-1 Operated

Str		
	dirGeneral	Non-Directional
	general	50G-1 Pickup

### 2.1.21 A50gPTOC2

Beh		
	stVal	Out of Service
		Inhibit 50G-2
		50G-2 Enabled
Health		
	stVal	Protection Healthy
Mod		
	stVal	Inhibit 50G-2
		50G-2 Enabled
Op		
	general	50G-2 Operated
Str		
	dirGeneral	Non-Directional
	general	50G-2 Pickup

### 2.1.22 A50LCPTOC1

Beh		
	stVal	Out of Service
		Inhibit 50 LC-1
		50 LC-1 Enabled
Health		
	stVal	Protection Healthy
Mod		
	stVal	Inhibit 50 LC-1
		50 LC-1 Enabled
Op		
	general	50 LC-1 Operated
Str		
	dirGeneral	Non-Directional
	dirPhsA	Non-Directional
	dirPhsB	Non-Directional

	dirPhsC	Non-Directional
	general	50 LC-1 PhA Pickup
		50 LC-1 PhB Pickup
		50 LC-1 PhC Pickup
	phsA	50 LC-1 PhA Pickup
	phsB	50 LC-1 PhB Pickup
	phsC	50 LC-1 PhC Pickup

### 2.1.23 A50LCPTOC2

Beh		
	stVal	Out of Service
		Inhibit 50 LC-2
		50 LC-2 Enabled
Health		
	stVal	Protection Healthy
Mod		
	stVal	Inhibit 50 LC-2
		50 LC-2 Enabled
Op		
	general	50 LC-2 Operated
Str		
	dirGeneral	Non-Directional
	dirPhsA	Non-Directional
	dirPhsB	Non-Directional
	dirPhsC	Non-Directional
	general	50 LC-2 PhA Pickup
		50 LC-2 PhB Pickup
		50 LC-2 PhC Pickup
	phsA	50 LC-2 PhA Pickup
	phsB	50 LC-2 PhB Pickup
	phsC	50 LC-2 PhC Pickup

### 2.1.24 A50nPTOC1

Beh		
	stVal	Out of Service
		Inhibit 50N-1

		50N-1 Enabled
Health		
	stVal	Protection Healthy
Mod		
	stVal	Inhibit 50N-1
		50N-1 Enabled
Op		
	general	50N-1 Operated
Str		
	dirGeneral	Non-Directional
	general	50N-1 Pickup

### 2.1.25 A50nPTOC2

Beh		
	stVal	Out of Service
		Inhibit 50N-2
		50N-2 Enabled
Health		
	stVal	Protection Healthy
Mod		
	stVal	Inhibit 50N-2
		50N-2 Enabled
Op		
	general	50N-2 Operated
Str		
	dirGeneral	Non-Directional
	general	50N-2 Pickup

### 2.1.26 A50PTOC1

Beh		
	stVal	Out of Service
		Inhibit 50-1
		50-1 Enabled
Health		
	stVal	Protection Healthy
Mod		

	stVal	Inhibit 50-1
		50-1 Enabled
Op		
	general	50-1 Operated
Str		
	dirGeneral	Non-Directional
	dirPhsA	Non-Directional
	dirPhsB	Non-Directional
	dirPhsC	Non-Directional
	general	50-1 PhA Pickup
		50-1 PhB Pickup
		50-1 PhC Pickup
	phsA	50-1 PhA Pickup
	phsB	50-1 PhB Pickup
	phsC	50-1 PhC Pickup

### 2.1.27 A50PTOC2

Beh		
	stVal	Out of Service
		Inhibit 50-2
		50-2 Enabled
Health		
	stVal	Protection Healthy
Mod		
	stVal	Inhibit 50-2
		50-2 Enabled
Op		
	general	50-2 Operated
Str		
	dirGeneral	Non-Directional
	dirPhsA	Non-Directional
	dirPhsB	Non-Directional
	dirPhsC	Non-Directional
	general	50-2 PhA Pickup
		50-2 PhB Pickup
		50-2 PhC Pickup

	phsA	50-2 PhA Pickup
	phsB	50-2 PhB Pickup
	phsC	50-2 PhC Pickup

**2.1.28 A50SefPTOC1**

Beh		
	stVal	Out of Service
		Inhibit 50SEF-1
		50SEF-1 Enabled
Health		
	stVal	Protection Healthy
Mod		
	stVal	Inhibit 50SEF-1
		50SEF-1 Enabled
Op		
	general	50SEF-1 Operated
Str		
	dirGeneral	Non-Directional
	general	50SEF-1 Pickup

**2.1.29 A50SefPTOC2**

Beh		
	stVal	Out of Service
		Inhibit 50SEF-2
		50SEF-2 Enabled
Health		
	stVal	Protection Healthy
Mod		
	stVal	Inhibit 50SEF-2
		50SEF-2 Enabled
Op		
	general	50SEF-2 Operated
Str		
	dirGeneral	Non-Directional
	general	50SEF-2 Pickup



**2.1.30 A50SLCPTOC1**

Beh		
	stVal	Out of Service
		Inhibit 50SEF LC-1
		50SEF LC-1 Enabled
Health		
	stVal	Protection Healthy
Mod		
	stVal	Inhibit 50SEF LC-1
		50SEF LC-1 Enabled
Op		
	general	50SEF LC-1 Operated
Str		
	dirGeneral	Non-Directional
	general	50SEF LC-1 Pickup

**2.1.31 A50SLCPTOC2**

Beh		
	stVal	Out of Service
		Inhibit 50SEF LC-2
		50SEF LC-2 Enabled
Health		
	stVal	Protection Healthy
Mod		
	stVal	Inhibit 50SEF LC-2
		50SEF LC-2 Enabled
Op		
	general	50SEF LC-2 Operated
Str		
	dirGeneral	Non-Directional
	general	50SEF LC-2 Pickup

**2.1.32 A51gPTOC1**

Beh		
	stVal	Out of Service
		Inhibit 51G-1

		51G-1 Enabled
Health		
	stVal	Protection Healthy
Mod		
	stVal	Inhibit 51G-1
		51G-1 Enabled
Op		
	general	51G-1 Operated
Str		
	dirGeneral	Non-Directional
	general	51G-1 Pickup

### 2.1.33 A51gPTOC2

Beh		
	stVal	Out of Service
		Inhibit 51G-2
		51G-2 Enabled
Health		
	stVal	Protection Healthy
Mod		
	stVal	Inhibit 51G-2
		51G-2 Enabled
Op		
	general	51G-2 Operated
Str		
	dirGeneral	Non-Directional
	general	51G-2 Pickup

### 2.1.34 A51nPTOC1

Beh		
	stVal	Out of Service
		Inhibit 51N-1
		51N-1 Enabled
Health		
	stVal	Protection Healthy
Mod		

	stVal	Inhibit 51N-1
		51N-1 Enabled
Op		
	general	51N-1 Operated
Str		
	dirGeneral	Non-Directional
	general	51N-1 Pickup

### 2.1.35 A51nPTOC2

Beh		
	stVal	Out of Service
		Inhibit 51N-2
		51N-2 Enabled
Health		
	stVal	Protection Healthy
Mod		
	stVal	Inhibit 51N-2
		51N-2 Enabled
Op		
	general	51N-2 Operated
Str		
	dirGeneral	Non-Directional
	general	51N-2 Pickup

### 2.1.36 A51PTOC1

Beh		
	stVal	Out of Service
		Inhibit 51-1
		51-1 Enabled
Health		
	stVal	Protection Healthy
Mod		
	stVal	Inhibit 51-1
		51-1 Enabled
Op		
	general	51-1 Operated

Str		
	dirGeneral	Non-Directional
	dirPhsA	Non-Directional
	dirPhsB	Non-Directional
	dirPhsC	Non-Directional
	general	51-1 PhA Pickup
		51-1 PhB Pickup
		51-1 PhC Pickup
	phsA	51-1 PhA Pickup
	phsB	51-1 PhB Pickup
	phsC	51-1 PhC Pickup

### 2.1.37 A51PTOC2

Beh		
	stVal	Out of Service
		Inhibit 51-2
		51-2 Enabled
Health		
	stVal	Protection Healthy
Mod		
	stVal	Inhibit 51-2
		51-2 Enabled
Op		
	general	51-2 Operated
Str		
	dirGeneral	Non-Directional
	dirPhsA	Non-Directional
	dirPhsB	Non-Directional
	dirPhsC	Non-Directional
	general	51-2 PhA Pickup
		51-2 PhB Pickup
		51-2 PhC Pickup
	phsA	51-2 PhA Pickup
	phsB	51-2 PhB Pickup
	phsC	51-2 PhC Pickup

**2.1.38 A51SefPTOC1**

Beh		
	stVal	Out of Service
		Inhibit 51SEF-1
		51SEF-1 Enabled
Health		
	stVal	Protection Healthy
Mod		
	stVal	Inhibit 51SEF-1
		51SEF-1 Enabled
Op		
	general	51SEF-1 Operated
Str		
	dirGeneral	Non-Directional
	general	51SEF-1 Pickup

**2.1.39 A51SefPTOC2**

Beh		
	stVal	Out of Service
		Inhibit 51SEF-2
		51SEF-2 Enabled
Health		
	stVal	Protection Healthy
Mod		
	stVal	Inhibit 51SEF-2
		51SEF-2 Enabled
Op		
	general	51SEF-2 Operated
Str		
	dirGeneral	Non-Directional
	general	51SEF-2 Pickup

**2.1.40 A64hPTOC1**

Beh		
	stVal	Out of Service
		Inhibit 64H

		64H Enabled
Health		
	stVal	Protection Healthy
Mod		
	stVal	Inhibit 64H
		64H Enabled
Op		
	general	64H Operated
Str		
	dirGeneral	Non-Directional
	general	64H Pickup

#### 2.1.41 A79RREC1

AutoRecSt		
	stVal	In Progress
		Successful
Beh		
	stVal	In
		Inhibit
		Out
		Protection Elements Enabled
		Out of Service
Health		
	stVal	Protection Healthy
Mod		
	stVal	Protection Elements Enabled
		In
		Inhibit
		Out
Op		
	general	Operated

#### 2.1.42 A81Hb2PHAR1

Beh		
	stVal	Out of Service
		Inhibit 81HBL2

		81HBL2 Enabled
Health		
	stVal	Protection Healthy
Mod		
	stVal	Inhibit 81HBL2
		81HBL2 Enabled
Str		
	dirGeneral	Non-Directional
	dirPhsA	Non-Directional
	dirPhsB	Non-Directional
	dirPhsC	Non-Directional
	general	81HBL2 PhA Pickup
		81HBL2 PhB Pickup
		81HBL2 PhC Pickup
	phsA	81HBL2 PhA Pickup
	phsB	81HBL2 PhB Pickup
	phsC	81HBL2 PhC Pickup

#### 2.1.43 CntDelGGIO1

Beh		
	stVal	CB Delta Trip Count Enabled
		Out of Service
Health		
	stVal	Protection Healthy
ISCSO1		
	stVal	CB Delta Trip Count
ISCSO2		
	stVal	CB Delta Trip Count Target
Loc		
	stVal	Local Mode
Mod		
	stVal	CB Delta Trip Count Enabled
SPCSO		
	stVal	CB Delta Trip Count Operated

**2.1.44 CntLOGGIO1**

Beh		
	stVal	CB Count To AR Block Enabled
		Out of Service
Health		
	stVal	Protection Healthy
ISCSO1		
	stVal	CB Count To AR Block
ISCSO2		
	stVal	CB Count To AR Block Target
Loc		
	stVal	Local Mode
Mod		
	stVal	CB Count To AR Block Enabled
SPCSO		
	stVal	CB Count To AR Block Operated

**2.1.45 LLN0**

Beh		
	stVal	Protection Active
		Out of Service
Health		
	stVal	Protection Healthy
Mod		
	stVal	Protection Active
		Out of Service
NamPlt		
	swRev	Software Revision
	vendor	Vendor Name
SGCB		
	ActSG	Active Setting Group 1
		Active Setting Group 2
		Active Setting Group 3
		Active Setting Group 4
	LActTm	Active Setting Group 1
		Active Setting Group 2



		Active Setting Group 3
		Active Setting Group 4
	NumOfSG	Number of 61850 Controllable Setting Groups

**2.1.46 PTRC1**

Beh		
	stVal	Protection Active
		Out of Service
Health		
	stVal	Protection Healthy
Mod		
	stVal	Protection Active
Op		
	general	General Operate
OpCntRs		
	Oper.ctlVal	Set CB Trip Count
	stVal	CB Trip Count
Str		
	dirGeneral	Non-Directional
	general	General Pickup
Tr		
	general	CB Trip

**2.1.47 RFLT1**

A		
	neut.cVal.mag.f	Measured Earth Current(Ig)
	phsA.cVal.mag.f	Ia
	phsB.cVal.mag.f	Ib
	phsC.cVal.mag.f	Ic
	res.cVal.mag.f	Calculated Earth Current(In)
Beh		
	stVal	Out of Service
Health		
	stVal	Protection Healthy

## 2.2 MEAS

### 2.2.1 Har2MMXU1

A		
	phsA.cVal.mag.f	Har2 Ia
	phsB.cVal.mag.f	Har2 Ib
	phsC.cVal.mag.f	Har2 Ic
Beh		
	stVal	Out of Service
Health		
	stVal	Protection Healthy

### 2.2.2 I\_MSQ11

Beh		
	stVal	Out of Service
Health		
	stVal	Protection Healthy
SeqA		
	c1.cVal.mag.f	Sequence Components I Seq PPS
	c1.instCVal.mag.f	Sequence Components I Seq PPS
	c1.units.multiplier	Sequence Components I Seq PPS
	c1.units.SIUnit	Sequence Components I Seq PPS
	c2.cVal.mag.f	Sequence Components I Seq NPS
	c2.instCVal.mag.f	Sequence Components I Seq NPS
	c2.units.multiplier	Sequence Components I Seq NPS
	c2.units.SIUnit	Sequence Components I Seq NPS
	c3.cVal.mag.f	Sequence Components I Seq ZPS
	c3.instCVal.mag.f	Sequence Components I Seq ZPS
	c3.units.multiplier	Sequence Components I Seq ZPS
	c3.units.SIUnit	Sequence Components I Seq ZPS

### 2.2.3 LLN0

Beh		
	stVal	Protection Healthy
		Out of Service
Health		

	stVal	Protection Healthy
Mod		
	stVal	Protection Healthy
		Out of Service
NamPlt		
	swRev	Software Revision
	vendor	Vendor Name

#### 2.2.4 MaxMMXU1

A		
	phsA.cVal.mag.f	Max Ia
	phsB.cVal.mag.f	Max Ib
	phsC.cVal.mag.f	Max Ic
Beh		
	stVal	Out of Service
Health		
	stVal	Protection Healthy
Hz		
	mag.f	Max Frequency(F)

#### 2.2.5 MeanMMXU1

A		
	phsA.cVal.mag.f	Mean Ia
	phsB.cVal.mag.f	Mean Ib
	phsC.cVal.mag.f	Mean Ic
Beh		
	stVal	Out of Service
Health		
	stVal	Protection Healthy
Hz		
	mag.f	Mean Frequency(F)

#### 2.2.6 MinMMXU1

A		
	phsA.cVal.mag.f	Min Ia
	phsB.cVal.mag.f	Min Ib

	phsC.cVal.mag.f	Min Ic
Beh		
	stVal	Out of Service
Health		
	stVal	Protection Healthy
Hz		
	mag.f	Min Frequency(F)

### 2.2.7 MMXU1

A		
	neut.cVal.mag.f	Measured Earth Current(Ig)
	phsA.cVal.mag.f	Ia
	phsB.cVal.mag.f	Ib
	phsC.cVal.mag.f	Ic
	res.cVal.mag.f	Calculated Earth Current(In)
Beh		
	stVal	Out of Service
Health		
	stVal	Protection Healthy
Hz		
	mag.f	Frequency(F)

## 2.3 DR

### 2.3.1 LLN0

Beh		
	stVal	Protection Healthy
		Out of Service
Health		
	stVal	Protection Healthy
Mod		
	stVal	Protection Healthy
		Out of Service
NamPlt		
	swRev	Software Revision
	vendor	Vendor Name

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### 2.3.2 RDRE1

Beh		
	stVal	Protection Healthy
		Out of Service
FltNum		
	stVal	Fault Number
GriFltNum		
	stVal	Grid Fault Number
Health		
	stVal	Protection Healthy
Mod		
	stVal	Protection Healthy
RcdMade		
	stVal	Recording Made

## 2.4 CTRL

### 2.4.1 BI6GGIO1

Beh		
	stVal	Out of Service
Health		
	stVal	Protection Healthy
Ind1		
	stVal	1
Ind2		
	stVal	2
Ind3		
	stVal	3
Ind4		
	stVal	4
Ind5		
	stVal	5
Ind6		
	stVal	6

**2.4.2 BO8GGIO1**

Beh		
	stVal	Out of Service
Health		
	stVal	Protection Healthy
Ind1		
	stVal	1
Ind2		
	stVal	2
Ind3		
	stVal	3
Ind4		
	stVal	4
Ind5		
	stVal	5
Ind6		
	stVal	6
Ind7		
	stVal	7
Ind8		
	stVal	8

**2.4.3 DPDOesGGIO1**

Beh		
	stVal	Out of Service
DPCSO		
	Oper.ctlVal	DPDOes 1 Control
	stVal	DPDOes 1 Status
Health		
	stVal	Protection Healthy
Loc		
	stVal	Local Mode

**2.4.4 DPDOesGGIO2**

Beh		
	stVal	Out of Service

DPCSO		
	Oper.ctlVal	DPDOes 2 Control
	stVal	DPDOes 2 Status
Health		
	stVal	Protection Healthy
Loc		
	stVal	Local Mode

#### 2.4.5 DPDOesGGIO3

Beh		
	stVal	Out of Service
DPCSO		
	Oper.ctlVal	DPDOes 3 Control
	stVal	DPDOes 3 Status
Health		
	stVal	Protection Healthy
Loc		
	stVal	Local Mode

#### 2.4.6 DPDOesGGIO4

Beh		
	stVal	Out of Service
DPCSO		
	Oper.ctlVal	DPDOes 4 Control
	stVal	DPDOes 4 Status
Health		
	stVal	Protection Healthy
Loc		
	stVal	Local Mode

#### 2.4.7 DPDOnsGGIO1

Beh		
	stVal	Out of Service
DPCSO		
	Oper.ctlVal	DPDOns 1 Control
	stVal	DPDOns 1 Status

Health		
	stVal	Protection Healthy
Loc		
	stVal	Local Mode

#### 2.4.8 DPDOsGGIO2

Beh		
	stVal	Out of Service
DPCSO		
	Oper.ctlVal	DPDOs 2 Control
	stVal	DPDOs 2 Status
Health		
	stVal	Protection Healthy
Loc		
	stVal	Local Mode

#### 2.4.9 DPDOsGGIO3

Beh		
	stVal	Out of Service
DPCSO		
	Oper.ctlVal	DPDOs 3 Control
	stVal	DPDOs 3 Status
Health		
	stVal	Protection Healthy
Loc		
	stVal	Local Mode

#### 2.4.10 DPDOsGGIO4

Beh		
	stVal	Out of Service
DPCSO		
	Oper.ctlVal	DPDOs 4 Control
	stVal	DPDOs 4 Status
Health		
	stVal	Protection Healthy
Loc		



	stVal	Local Mode

#### 2.4.11 DPi8GGIO1

Beh		
	stVal	Out of Service
DPCSO1		
	ctlVal	DPi8GGIO1 DPCSO 1
DPCSO2		
	ctlVal	DPi8GGIO1 DPCSO 2
DPCSO3		
	ctlVal	DPi8GGIO1 DPCSO 3
DPCSO4		
	ctlVal	DPi8GGIO1 DPCSO 4
DPCSO5		
	ctlVal	DPi8GGIO1 DPCSO 5
DPCSO6		
	ctlVal	DPi8GGIO1 DPCSO 6
DPCSO7		
	ctlVal	DPi8GGIO1 DPCSO 7
DPCSO8		
	ctlVal	DPi8GGIO1 DPCSO 8
Health		
	stVal	Protection Healthy

#### 2.4.12 DPi8GGIO2

Beh		
	stVal	Out of Service
DPCSO1		
	ctlVal	DPi8GGIO2 DPCSO 1
DPCSO2		
	ctlVal	DPi8GGIO2 DPCSO 2
DPCSO3		
	ctlVal	DPi8GGIO2 DPCSO 3
DPCSO4		
	ctlVal	DPi8GGIO2 DPCSO 4
DPCSO5		

	ctlVal	DPi8GGIO2 DPCSO 5
DPCSO6		
	ctlVal	DPi8GGIO2 DPCSO 6
DPCSO7		
	ctlVal	DPi8GGIO2 DPCSO 7
DPCSO8		
	ctlVal	DPi8GGIO2 DPCSO 8
Health		
	stVal	Protection Healthy

#### 2.4.13 DPo8GGIO1

Beh		
	stVal	Out of Service
DPCSO1		
	stVal	DPo8GGIO1 Ind 1
DPCSO2		
	stVal	DPo8GGIO1 Ind 2
DPCSO3		
	stVal	DPo8GGIO1 Ind 3
DPCSO4		
	stVal	DPo8GGIO1 Ind 4
DPCSO5		
	stVal	DPo8GGIO1 Ind 5
DPCSO6		
	stVal	DPo8GGIO1 Ind 6
DPCSO7		
	stVal	DPo8GGIO1 Ind 7
DPCSO8		
	stVal	DPo8GGIO1 Ind 8
Health		
	stVal	Protection Healthy

#### 2.4.14 DPo8GGIO2

Beh		
	stVal	Out of Service
DPCSO1		

	stVal	DPo8GGIO2 Ind 1
DPCSO2		
	stVal	DPo8GGIO2 Ind 2
DPCSO3		
	stVal	DPo8GGIO2 Ind 3
DPCSO4		
	stVal	DPo8GGIO2 Ind 4
DPCSO5		
	stVal	DPo8GGIO2 Ind 5
DPCSO6		
	stVal	DPo8GGIO2 Ind 6
DPCSO7		
	stVal	DPo8GGIO2 Ind 7
DPCSO8		
	stVal	DPo8GGIO2 Ind 8
Health		
	stVal	Protection Healthy

#### 2.4.15 E4GGIO1

Beh		
	stVal	Out of Service
Health		
	stVal	Protection Healthy
Ind1		
	stVal	1
Ind2		
	stVal	2
Ind3		
	stVal	3
Ind4		
	stVal	4

#### 2.4.16 L9GGIO1

Beh		
	stVal	Out of Service
Health		

	stVal	Protection Healthy
Ind1		
	stVal	1
Ind2		
	stVal	2
Ind3		
	stVal	3
Ind4		
	stVal	4
Ind5		
	stVal	5
Ind6		
	stVal	6
Ind7		
	stVal	7
Ind8		
	stVal	8
Ind9		
	stVal	9

#### 2.4.17 LLN0

Beh		
	stVal	Out of Service
		Protection Healthy
Health		
	stVal	Protection Healthy
LEDRs		
	stVal	LED Reset
Loc		
	stVal	Local Mode
Mod		
	stVal	Out of Service
		Protection Healthy
NamPlt		
	swRev	Software Revision
	vendor	Vendor Name

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**2.4.18 Q0CILO1**

Beh		
	stVal	Out of Service
EnaCls		
	stVal	Not Close Block
EnaOpn		
	stVal	Not Open Block
Health		
	stVal	Protection Healthy

**2.4.19 Q0CSWI1**

Beh		
	stVal	Out of Service
Health		
	stVal	Protection Healthy
Loc		
	stVal	Local Mode
Pos		
	Oper.ctlVal	
	stVal	

**2.4.20 Q0XCBR1**

Beh		
	stVal	Out of Service
BlkCls		
	stVal	Close Block
BlkOpn		
	stVal	Open Block
Health		
	stVal	Protection Healthy
Loc		
	stVal	Local Mode
OpCnt		
	stVal	CB Operations Counter
Pos		

	stVal	
SumSwARs1		
	actVal	CB Wear PhA
SumSwARs2		
	actVal	CB Wear PhB
SumSwARs3		
	actVal	CB Wear PhC

#### 2.4.21 SPDOesGGIO1

Beh		
	stVal	Out of Service
Health		
	stVal	Protection Healthy
Loc		
	stVal	Local Mode
SPCSO		
	Oper.ctlVal	SPDOes 1 Control
	stVal	SPDOes 1 Status

#### 2.4.22 SPDOesGGIO2

Beh		
	stVal	Out of Service
Health		
	stVal	Protection Healthy
Loc		
	stVal	Local Mode
SPCSO		
	Oper.ctlVal	SPDOes 2 Control
	stVal	SPDOes 2 Status

#### 2.4.23 SPDOesGGIO3

Beh		
	stVal	Out of Service
Health		
	stVal	Protection Healthy
Loc		

	stVal	Local Mode
SPCSO		
	Oper.ctlVal	SPDOes 3 Control
	stVal	SPDOes 3 Status

**2.4.24 SPDOesGGIO4**

Beh		
	stVal	Out of Service
Health		
	stVal	Protection Healthy
Loc		
	stVal	Local Mode
SPCSO		
	Oper.ctlVal	SPDOes 4 Control
	stVal	SPDOes 4 Status

**2.4.25 SPDOnsGGIO1**

Beh		
	stVal	Out of Service
Health		
	stVal	Protection Healthy
Loc		
	stVal	Local Mode
SPCSO		
	Oper.ctlVal	SPDOns 1 Control
	stVal	SPDOns 1 Status

**2.4.26 SPDOnsGGIO2**

Beh		
	stVal	Out of Service
Health		
	stVal	Protection Healthy
Loc		
	stVal	Local Mode
SPCSO		
	Oper.ctlVal	SPDOns 2 Control

	stVal	SPDOs 2 Status

**2.4.27 SPDOsGGIO3**

Beh		
	stVal	Out of Service
Health		
	stVal	Protection Healthy
Loc		
	stVal	Local Mode
SPCSO		
	Oper.ctlVal	SPDOs 3 Control
	stVal	SPDOs 3 Status

**2.4.28 SPDOsGGIO4**

Beh		
	stVal	Out of Service
Health		
	stVal	Protection Healthy
Loc		
	stVal	Local Mode
SPCSO		
	Oper.ctlVal	SPDOs 4 Control
	stVal	SPDOs 4 Status

**2.4.29 SPi64GGIO1**

Beh		
	stVal	Out of Service
Health		
	stVal	Protection Healthy
SPCSO1		
	ctlVal	SPi64GGIO1 SPCSO 1
SPCSO10		
	ctlVal	SPi64GGIO1 SPCSO 10
SPCSO11		
	ctlVal	SPi64GGIO1 SPCSO 11
SPCSO12		



	ctlVal	SPi64GGIO1 SPCSO 12
SPCSO13		
	ctlVal	SPi64GGIO1 SPCSO 13
SPCSO14		
	ctlVal	SPi64GGIO1 SPCSO 14
SPCSO15		
	ctlVal	SPi64GGIO1 SPCSO 15
SPCSO16		
	ctlVal	SPi64GGIO1 SPCSO 16
SPCSO17		
	ctlVal	SPi64GGIO1 SPCSO 17
SPCSO18		
	ctlVal	SPi64GGIO1 SPCSO 18
SPCSO19		
	ctlVal	SPi64GGIO1 SPCSO 19
SPCSO2		
	ctlVal	SPi64GGIO1 SPCSO 2
SPCSO20		
	ctlVal	SPi64GGIO1 SPCSO 20
SPCSO21		
	ctlVal	SPi64GGIO1 SPCSO 21
SPCSO22		
	ctlVal	SPi64GGIO1 SPCSO 22
SPCSO23		
	ctlVal	SPi64GGIO1 SPCSO 23
SPCSO24		
	ctlVal	SPi64GGIO1 SPCSO 24
SPCSO25		
	ctlVal	SPi64GGIO1 SPCSO 25
SPCSO26		
	ctlVal	SPi64GGIO1 SPCSO 26
SPCSO27		
	ctlVal	SPi64GGIO1 SPCSO 27
SPCSO28		
	ctlVal	SPi64GGIO1 SPCSO 28
SPCSO29		
	ctlVal	SPi64GGIO1 SPCSO 29

SPCSO3		
	ctlVal	SPi64GGIO1 SPCSO 3
SPCSO30		
	ctlVal	SPi64GGIO1 SPCSO 30
SPCSO31		
	ctlVal	SPi64GGIO1 SPCSO 31
SPCSO32		
	ctlVal	SPi64GGIO1 SPCSO 32
SPCSO33		
	ctlVal	SPi64GGIO1 SPCSO 33
SPCSO34		
	ctlVal	SPi64GGIO1 SPCSO 34
SPCSO35		
	ctlVal	SPi64GGIO1 SPCSO 35
SPCSO36		
	ctlVal	SPi64GGIO1 SPCSO 36
SPCSO37		
	ctlVal	SPi64GGIO1 SPCSO 37
SPCSO38		
	ctlVal	SPi64GGIO1 SPCSO 38
SPCSO39		
	ctlVal	SPi64GGIO1 SPCSO 39
SPCSO4		
	ctlVal	SPi64GGIO1 SPCSO 4
SPCSO40		
	ctlVal	SPi64GGIO1 SPCSO 40
SPCSO41		
	ctlVal	SPi64GGIO1 SPCSO 41
SPCSO42		
	ctlVal	SPi64GGIO1 SPCSO 42
SPCSO43		
	ctlVal	SPi64GGIO1 SPCSO 43
SPCSO44		
	ctlVal	SPi64GGIO1 SPCSO 44
SPCSO45		
	ctlVal	SPi64GGIO1 SPCSO 45
SPCSO46		

	ctlVal	SPi64GGIO1 SPCSO 46
SPCSO47		
	ctlVal	SPi64GGIO1 SPCSO 47
SPCSO48		
	ctlVal	SPi64GGIO1 SPCSO 48
SPCSO49		
	ctlVal	SPi64GGIO1 SPCSO 49
SPCSO5		
	ctlVal	SPi64GGIO1 SPCSO 5
SPCSO50		
	ctlVal	SPi64GGIO1 SPCSO 50
SPCSO51		
	ctlVal	SPi64GGIO1 SPCSO 51
SPCSO52		
	ctlVal	SPi64GGIO1 SPCSO 52
SPCSO53		
	ctlVal	SPi64GGIO1 SPCSO 53
SPCSO54		
	ctlVal	SPi64GGIO1 SPCSO 54
SPCSO55		
	ctlVal	SPi64GGIO1 SPCSO 55
SPCSO56		
	ctlVal	SPi64GGIO1 SPCSO 56
SPCSO57		
	ctlVal	SPi64GGIO1 SPCSO 57
SPCSO58		
	ctlVal	SPi64GGIO1 SPCSO 58
SPCSO59		
	ctlVal	SPi64GGIO1 SPCSO 59
SPCSO6		
	ctlVal	SPi64GGIO1 SPCSO 6
SPCSO60		
	ctlVal	SPi64GGIO1 SPCSO 60
SPCSO61		
	ctlVal	SPi64GGIO1 SPCSO 61
SPCSO62		
	ctlVal	SPi64GGIO1 SPCSO 62

SPCSO63		
	ctlVal	SPi64GGIO1 SPCSO 63
SPCSO64		
	ctlVal	SPi64GGIO1 SPCSO 64
SPCSO7		
	ctlVal	SPi64GGIO1 SPCSO 7
SPCSO8		
	ctlVal	SPi64GGIO1 SPCSO 8
SPCSO9		
	ctlVal	SPi64GGIO1 SPCSO 9

### 2.4.30 SPo32GGIO1

Beh		
	stVal	Out of Service
Health		
	stVal	Protection Healthy
Ind1		
	stVal	SPo32GGIO1 Ind 1
Ind10		
	stVal	SPo32GGIO1 Ind 10
Ind11		
	stVal	SPo32GGIO1 Ind 11
Ind12		
	stVal	SPo32GGIO1 Ind 12
Ind13		
	stVal	SPo32GGIO1 Ind 13
Ind14		
	stVal	SPo32GGIO1 Ind 14
Ind15		
	stVal	SPo32GGIO1 Ind 15
Ind16		
	stVal	SPo32GGIO1 Ind 16
Ind17		
	stVal	SPo32GGIO1 Ind 17
Ind18		
	stVal	SPo32GGIO1 Ind 18

Ind19		
	stVal	SPo32GGIO1 Ind 19
Ind2		
	stVal	SPo32GGIO1 Ind 2
Ind20		
	stVal	SPo32GGIO1 Ind 20
Ind21		
	stVal	SPo32GGIO1 Ind 21
Ind22		
	stVal	SPo32GGIO1 Ind 22
Ind23		
	stVal	SPo32GGIO1 Ind 23
Ind24		
	stVal	SPo32GGIO1 Ind 24
Ind25		
	stVal	SPo32GGIO1 Ind 25
Ind26		
	stVal	SPo32GGIO1 Ind 26
Ind27		
	stVal	SPo32GGIO1 Ind 27
Ind28		
	stVal	SPo32GGIO1 Ind 28
Ind29		
	stVal	SPo32GGIO1 Ind 29
Ind3		
	stVal	SPo32GGIO1 Ind 3
Ind30		
	stVal	SPo32GGIO1 Ind 30
Ind31		
	stVal	SPo32GGIO1 Ind 31
Ind32		
	stVal	SPo32GGIO1 Ind 32
Ind4		
	stVal	SPo32GGIO1 Ind 4
Ind5		
	stVal	SPo32GGIO1 Ind 5
Ind6		

	stVal	SPo32GGIO1 Ind 6
Ind7		
	stVal	SPo32GGIO1 Ind 7
Ind8		
	stVal	SPo32GGIO1 Ind 8
Ind9		
	stVal	SPo32GGIO1 Ind 9

### 2.4.31 V8GGIO1

Beh		
	stVal	Out of Service
Health		
	stVal	Protection Healthy
Ind1		
	stVal	1
Ind2		
	stVal	2
Ind3		
	stVal	3
Ind4		
	stVal	4
Ind5		
	stVal	5
Ind6		
	stVal	6
Ind7		
	stVal	7
Ind8		
	stVal	8