

# 7SR23 DAD

High Impedance Protection Relay

## IEC 61850 Model Implementation Conformance Statement (MICS)

### Document Release History

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# 1 IEC 61850 -> Reyrolle

## 1.1 PROT

### 1.1.1 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

### 1.1.2 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

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**1.1.3 A8750PDIF1**

Beh		
	stVal	Out of Service
		Inhibit 87/50-1
		87/50-1 Enabled
DifAClc		
	phsA.cVal.mag.f	Ia Value
	phsA.instCVal.mag.f	Ia Value
	phsA.units.multiplier	Ia Multiplier
	phsA.units.SIUnit	Ia Units
	phsB.cVal.mag.f	Ib Value
	phsB.instCVal.mag.f	Ib Value
	phsB.units.multiplier	Ib Multilier
	phsB.units.SIUnit	Ib Units
	phsC.cVal.mag.f	Ic Value
	phsC.instCVal.mag.f	Ic Value
	phsC.units.multiplier	Ic Multiplier
	phsC.units.SIUnit	Ic Units
Health		
	stVal	Protection Healthy
Mod		
	stVal	Inhibit 87/50-1
		87/50-1 Enabled
Op		
	general	87/50-1 PhA Operated
		87/50-1 PhB Operated
		87/50-1 PhC Operated
	phsA	87/50-1 PhA Operated
	phsB	87/50-1 PhB Operated
	phsC	87/50-1 PhC Operated

**1.1.4 A8750PDIF2**

Beh		
	stVal	Out of Service



		Inhibit 87/50-2
		87/50-2 Enabled
DifACIc		
	phsA.cVal.mag.f	Ia Value
	phsA.instCVal.mag.f	Ia Value
	phsA.units.multiplier	Ia Multiplier
	phsA.units.SIUnit	Ia Units
	phsB.cVal.mag.f	Ib Value
	phsB.instCVal.mag.f	Ib Value
	phsB.units.multiplier	Ib Multiplier
	phsB.units.SIUnit	Ib Units
	phsC.cVal.mag.f	Ic Value
	phsC.instCVal.mag.f	Ic Value
	phsC.units.multiplier	Ic Multiplier
	phsC.units.SIUnit	Ic Units
Health		
	stVal	Protection Healthy
Mod		
	stVal	Inhibit 87/50-2
		87/50-2 Enabled
Op		
	general	87/50-2 PhA Operated
		87/50-2 PhB Operated
		87/50-2 PhC Operated
	phsA	87/50-2 PhA Operated
	phsB	87/50-2 PhB Operated
	phsC	87/50-2 PhC Operated

### 1.1.5 A87RefPTOC1

Beh		
	stVal	Out of Service
		Inhibit 87REF-1
		87REF-1 Enabled
Health		
	stVal	Protection Healthy
Mod		

	stVal	Inhibit 87REF-1
		87REF-1 Enabled
Op		
	general	87REF-1 Operated
Str		
	dirGeneral	Non-Directional
	general	87REF-1 Pickup

### 1.1.6 A87RefPTOC2

Beh		
	stVal	Out of Service
		Inhibit 87REF-2
		87REF-2 Enabled
Health		
	stVal	Protection Healthy
Mod		
	stVal	Inhibit 87REF-2
		87REF-2 Enabled
Op		
	general	87REF-2 Operated
Str		
	dirGeneral	Non-Directional
	general	87REF-2 Pickup

### 1.1.7 CT50PTOC1

Beh		
	stVal	Out of Service
		Inhibit CT50
		CT50 Enabled
Health		
	stVal	Protection Healthy
Mod		
	stVal	Inhibit CT50
		CT50 Enabled
Op		

	general	CT50 PhA Operated
		CT50 PhB Operated
		CT50 PhC Operated
	phsA	CT50 PhA Operated
	phsB	CT50 PhB Operated
	phsC	CT50 PhC Operated
Str		
	dirGeneral	Non-Directional
	dirPhsA	Non-Directional
	dirPhsB	Non-Directional
	dirPhsC	Non-Directional
	general	CT50 PhA Pickup
		CT50 PhB Pickup
		CT50 PhC Pickup
	phsA	CT50 PhA Pickup
	phsB	CT50 PhB Pickup
	phsC	CT50 PhC Pickup

### 1.1.8 LLN0 - PROT

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

### 1.1.9 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

## 1.2 MEAS

### 1.2.1 LLN0 - MEAS

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

### 1.3 DR

#### 1.3.1 LLN0 - DR

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

#### 1.3.2 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

## 1.4 CTRL

### 1.4.1 Alm32GGIO1

Beh		
	stVal	Out of Service
Health		
	stVal	Protection Healthy
Ind1		
	stVal	Alarm 1
Ind2		
	stVal	Alarm 2
Ind3		
	stVal	Alarm 3
Ind4		
	stVal	Alarm 4
Ind5		
	stVal	Alarm 5
Ind6		
	stVal	Alarm 6
Ind7		
	stVal	Alarm 7
Ind8		
	stVal	Alarm 8
Ind9		
	stVal	Alarm 9
Ind10		
	stVal	Alarm 10
Ind11		
	stVal	Alarm 11
Ind12		
	stVal	Alarm 12
Ind13		
	stVal	Alarm 13

Ind14		
	stVal	Alarm 14
Ind15		
	stVal	Alarm 15
Ind16		
	stVal	Alarm 16
Ind17		
	stVal	Alarm 17
Ind18		
	stVal	Alarm 18
Ind19		
	stVal	Alarm 19
Ind20		
	stVal	Alarm 20
Ind21		
	stVal	Alarm 21
Ind22		
	stVal	Alarm 22
Ind23		
	stVal	Alarm 23
Ind24		
	stVal	Alarm 24
Ind25		
	stVal	Alarm 25
Ind26		
	stVal	Alarm 26
Ind27		
	stVal	Alarm 27
Ind28		
	stVal	Alarm 28
Ind29		
	stVal	Alarm 29
Ind30		
	stVal	Alarm 30
Ind31		
	stVal	Alarm 31

Ind32		
	stVal	Alarm 32

#### 1.4.2 BI19GGIO1

Beh		
	stVal	Out of Service
Health		
	stVal	Protection Healthy
Ind1		
	stVal	Binary Input 1
Ind2		
	stVal	Binary Input 2
Ind3		
	stVal	Binary Input 3
Ind4		
	stVal	Binary Input 4
Ind5		
	stVal	Binary Input 5
Ind6		
	stVal	Binary Input 6
Ind7		
	stVal	Binary Input 7
Ind8		
	stVal	Binary Input 8
Ind9		
	stVal	Binary Input 9
Ind10		
	stVal	Binary Input 10
Ind11		
	stVal	Binary Input 11
Ind12		
	stVal	Binary Input 12
Ind13		
	stVal	Binary Input 13
Ind14		
	stVal	Binary Input 14
Ind15		



	stVal	Binary Input 15
Ind16		
	stVal	Binary Input 16
Ind17		
	stVal	Binary Input 17
Ind18		
	stVal	Binary Input 18
Ind19		
	stVal	Binary Input 19

### 1.4.3 BO16GGIO1

Beh		
	stVal	Out of Service
Health		
	stVal	Protection Healthy
Ind1		
	stVal	Binary Output 1
Ind2		
	stVal	Binary Output 2
Ind3		
	stVal	Binary Output 3
Ind4		
	stVal	Binary Output 4
Ind5		
	stVal	Binary Output 5
Ind6		
	stVal	Binary Output 6
Ind7		
	stVal	Binary Output 7
Ind8		
	stVal	Binary Output 8
Ind9		
	stVal	Binary Output 9
Ind10		
	stVal	Binary Output 10
Ind11		

	stVal	Binary Output 11
Ind12		
	stVal	Binary Output 12
Ind13		
	stVal	Binary Output 13
Ind14		
	stVal	Binary Output 14
Ind15		
	stVal	Binary Output 15
Ind16		
	stVal	Binary Output 16

#### 1.4.4 DPDOesGGIO1

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

#### 1.4.5 DPDOesGGIO2

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

#### 1.4.6 DPDOesGGIO3

Beh		
-----	--	--

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

**1.4.7 DPDOesGGIO4**

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

**1.4.8 DPDOnsGGIO1**

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

**1.4.9 DPDOnsGGIO2**

Beh		
	stVal	Out of Service
DPCSO		

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

**1.4.10 DPDOsGGIO3**

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

**1.4.11 DPDOsGGIO4**

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

**1.4.12 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

#### 1.4.13 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

**1.4.14 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

**1.4.15 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

#### 1.4.16 E16GGIO1

Beh		
	stVal	Out of Service
Health		
	stVal	Protection Healthy
Ind1		
	stVal	Quick Logic Equation 1
Ind2		
	stVal	Quick Logic Equation 2
Ind3		
	stVal	Quick Logic Equation 3
Ind4		
	stVal	Quick Logic Equation 4
Ind5		
	stVal	Quick Logic Equation 5
Ind6		
	stVal	Quick Logic Equation 6
Ind7		
	stVal	Quick Logic Equation 7
Ind8		
	stVal	Quick Logic Equation 8
Ind9		
	stVal	Quick Logic Equation 9
Ind10		
	stVal	Quick Logic Equation 10

Ind11		
	stVal	Quick Logic Equation 11
Ind12		
	stVal	Quick Logic Equation 12
Ind13		
	stVal	Quick Logic Equation 13
Ind14		
	stVal	Quick Logic Equation 14
Ind15		
	stVal	Quick Logic Equation 15
Ind16		
	stVal	Quick Logic Equation 16

#### 1.4.17 L16GGIO1

Beh		
	stVal	Out of Service
Health		
	stVal	Protection Healthy
Ind1		
	stVal	LED 1
Ind2		
	stVal	LED 2
Ind3		
	stVal	LED 3
Ind4		
	stVal	LED 4
Ind5		
	stVal	LED 5
Ind6		
	stVal	LED 6
Ind7		
	stVal	LED 7
Ind8		
	stVal	LED 8
Ind9		
	stVal	LED 9



Ind10		
	stVal	LED 10
Ind11		
	stVal	LED 11
Ind12		
	stVal	LED 12
Ind13		
	stVal	LED 13
Ind14		
	stVal	LED 14
Ind15		
	stVal	LED 15
Ind16		
	stVal	LED 16

#### 1.4.18 LLN0 - CTRL

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
NamPit		
	swRev	Software Revision
	vendor	Vendor Name

#### 1.4.19 OpCntGGIO1

Beh		
	stVal	CB1 Open Cnt Enabled

		Out of Service
Health		
	stVal	Protection Healthy
ISCSO1		
	stVal	CB1 Open Cnt
ISCSO2		
	stVal	CB1 Open Cnt Target
Loc		
	stVal	Local Mode
Mod		
	stVal	CB1 Open Cnt Enabled
SPCSO		
	stVal	CB1 Open Cnt Operated

#### 1.4.20 OpCntGGIO2

Beh		
	stVal	CB2 Open Cnt Enabled
		Out of Service
Health		
	stVal	Protection Healthy
ISCSO1		
	stVal	CB2 Open Cnt
ISCSO2		
	stVal	CB2 Open Cnt Target
Loc		
	stVal	Local Mode
Mod		
	stVal	CB2 Open Cnt Enabled
SPCSO		
	stVal	CB2 Open Cnt Operated

#### 1.4.21 OpCntGGIO3

Beh		
	stVal	CB3 Open Cnt Enabled
		Out of Service

Health		
	stVal	Protection Healthy
ISCSO1		
	stVal	CB3 Open Cnt
ISCSO2		
	stVal	CB3 Open Cnt Target
Loc		
	stVal	Local Mode
Mod		
	stVal	CB3 Open Cnt Enabled
SPCSO		
	stVal	CB3 Open Cnt Operated

#### 1.4.22 OpCntGGIO4

Beh		
	stVal	CB4 Open Cnt Enabled
		Out of Service
Health		
	stVal	Protection Healthy
ISCSO1		
	stVal	CB4 Open Cnt
ISCSO2		
	stVal	CB4 Open Cnt Target
Loc		
	stVal	Local Mode
Mod		
	stVal	CB4 Open Cnt Enabled
SPCSO		
	stVal	CB4 Open Cnt Operated

#### 1.4.23 OpCntGGIO5

Beh		
	stVal	CB5 Open Cnt Enabled
		Out of Service
Health		

	stVal	Protection Healthy
ISCSO1		
	stVal	CB5 Open Cnt
ISCSO2		
	stVal	CB5 Open Cnt Target
Loc		
	stVal	Local Mode
Mod		
	stVal	CB5 Open Cnt Enabled
SPCSO		
	stVal	CB5 Open Cnt Operated

#### 1.4.24 OpCntGGIO6

Beh		
	stVal	CB6 Open Cnt Enabled
		Out of Service
Health		
	stVal	Protection Healthy
ISCSO1		
	stVal	CB6 Open Cnt
ISCSO2		
	stVal	CB6 Open Cnt Target
Loc		
	stVal	Local Mode
Mod		
	stVal	CB6 Open Cnt Enabled
SPCSO		
	stVal	CB6 Open Cnt Operated

#### 1.4.25 OpCntGGIO7

Beh		
	stVal	CB7 Open Cnt Enabled
		Out of Service
Health		
	stVal	Protection Healthy

ISCSO1		
	stVal	CB7 Open Cnt
ISCSO2		
	stVal	CB7 Open Cnt Target
Loc		
	stVal	Local Mode
Mod		
	stVal	CB7 Open Cnt Enabled
SPCSO		
	stVal	CB7 Open Cnt Operated

#### 1.4.26 OpCntGGIO8

Beh		
	stVal	CB8 Open Cnt Enabled
		Out of Service
Health		
	stVal	Protection Healthy
ISCSO1		
	stVal	CB8 Open Cnt
ISCSO2		
	stVal	CB8 Open Cnt Target
Loc		
	stVal	Local Mode
Mod		
	stVal	CB8 Open Cnt Enabled
SPCSO		
	stVal	CB8 Open Cnt Operated

#### 1.4.27 OpCntGGIO9

Beh		
	stVal	CB9 Open Cnt Enabled
		Out of Service
Health		
	stVal	Protection Healthy
ISCSO1		

	stVal	CB9 Open Cnt
ISCSO2		
	stVal	CB9 Open Cnt Target
Loc		
	stVal	Local Mode
Mod		
	stVal	CB9 Open Cnt Enabled
SPCSO		
	stVal	CB9 Open Cnt Operated

#### 1.4.28 OpCntGGIO10

Beh		
	stVal	CB10 Open Cnt Enabled
		Out of Service
Health		
	stVal	Protection Healthy
ISCSO1		
	stVal	CB10 Open Cnt
ISCSO2		
	stVal	CB10 Open Cnt Target
Loc		
	stVal	Local Mode
Mod		
	stVal	CB10 Open Cnt Enabled
SPCSO		
	stVal	CB10 Open Cnt Operated

#### 1.4.29 OpCntGGIO11

Beh		
	stVal	CB11 Open Cnt Enabled
		Out of Service
Health		
	stVal	Protection Healthy
ISCSO1		
	stVal	CB11 Open Cnt

ISCSO2		
	stVal	CB11 Open Cnt Target
Loc		
	stVal	Local Mode
Mod		
	stVal	CB11 Open Cnt Enabled
SPCSO		
	stVal	CB11 Open Cnt Operated

#### 1.4.30 OpCntGGIO12

Beh		
	stVal	CB12 Open Cnt Enabled
		Out of Service
Health		
	stVal	Protection Healthy
ISCSO1		
	stVal	CB12 Open Cnt
ISCSO2		
	stVal	CB12 Open Cnt Target
Loc		
	stVal	Local Mode
Mod		
	stVal	CB12 Open Cnt Enabled
SPCSO		
	stVal	CB12 Open Cnt Operated

#### 1.4.31 OpDelGGIO1

Beh		
	stVal	CB1 Delta Cnt Enabled
		Out of Service
Health		
	stVal	Protection Healthy
ISCSO1		
	stVal	CB1 Delta Cnt
ISCSO2		

	stVal	CB1 Delta Cnt Target
Loc		
	stVal	Local Mode
Mod		
	stVal	CB1 Delta Cnt Enabled
SPCSO		
	stVal	CB1 Delta Cnt Operated
SPCSO		
	stVal	CB12 Delta Cnt Operated

#### 1.4.32 OpDelGGIO2

Beh		
	stVal	CB2 Delta Cnt Enabled
		Out of Service
Health		
	stVal	Protection Healthy
ISCSO1		
	stVal	CB2 Delta Cnt
ISCSO2		
	stVal	CB2 Delta Cnt Target
Loc		
	stVal	Local Mode
Mod		
	stVal	CB2 Delta Cnt Enabled
SPCSO		
	stVal	CB2 Delta Cnt Operated

#### 1.4.33 OpDelGGIO3

Beh		
	stVal	CB3 Delta Cnt Enabled
		Out of Service
Health		
	stVal	Protection Healthy
ISCSO1		



	stVal	CB3 Delta Cnt
ISCSO2		
	stVal	CB3 Delta Cnt Target
Loc		
	stVal	Local Mode
Mod		
	stVal	CB3 Delta Cnt Enabled
SPCSO		
	stVal	CB3 Delta Cnt Operated

#### 1.4.34 OpDelGGIO4

Beh		
	stVal	CB4 Delta Cnt Enabled
		Out of Service
Health		
	stVal	Protection Healthy
ISCSO1		
	stVal	CB4 Delta Cnt
ISCSO2		
	stVal	CB4 Delta Cnt Target
Loc		
	stVal	Local Mode
Mod		
	stVal	CB4 Delta Cnt Enabled
SPCSO		
	stVal	CB4 Delta Cnt Operated

#### 1.4.35 OpDelGGIO5

Beh		
	stVal	CB5 Delta Cnt Enabled
		Out of Service
Health		
	stVal	Protection Healthy
ISCSO1		
	stVal	CB5 Delta Cnt

ISCSO2		
	stVal	CB5 Delta Cnt Target
Loc		
	stVal	Local Mode
Mod		
	stVal	CB5 Delta Cnt Enabled
SPCSO		
	stVal	CB5 Delta Cnt Operated

#### 1.4.36 OpDelGGIO6

Beh		
	stVal	CB6 Delta Cnt Enabled
		Out of Service
Health		
	stVal	Protection Healthy
ISCSO1		
	stVal	CB6 Delta Cnt
ISCSO2		
	stVal	CB6 Delta Cnt Target
Loc		
	stVal	Local Mode
Mod		
	stVal	CB6 Delta Cnt Enabled
SPCSO		
	stVal	CB6 Delta Cnt Operated

#### 1.4.37 OpDelGGIO7

Beh		
	stVal	CB7 Delta Cnt Enabled
		Out of Service
Health		
	stVal	Protection Healthy
ISCSO1		
	stVal	CB7 Delta Cnt
ISCSO2		

	stVal	CB7 Delta Cnt Target
Loc		
	stVal	Local Mode
Mod		
	stVal	CB7 Delta Cnt Enabled
SPCSO		
	stVal	CB7 Delta Cnt Operated

#### 1.4.38 OpDelGGIO8

Beh		
	stVal	CB8 Delta Cnt Enabled
		Out of Service
Health		
	stVal	Protection Healthy
ISCSO1		
	stVal	CB8 Delta Cnt
ISCSO2		
	stVal	CB8 Delta Cnt Target
Loc		
	stVal	Local Mode
Mod		
	stVal	CB8 Delta Cnt Enabled
SPCSO		
	stVal	CB8 Delta Cnt Operated

#### 1.4.39 OpDelGGIO9

Beh		
	stVal	CB9 Delta Cnt Enabled
		Out of Service
Health		
	stVal	Protection Healthy
ISCSO1		
	stVal	CB9 Delta Cnt
ISCSO2		
	stVal	CB9 Delta Cnt Target

Loc		
	stVal	Local Mode
Mod		
	stVal	CB9 Delta Cnt Enabled
SPCSO		
	stVal	CB9 Delta Cnt Operated

#### 1.4.40 OpDelGGIO10

Beh		
	stVal	CB10 Delta Cnt Enabled
		Out of Service
Health		
	stVal	Protection Healthy
ISCSO1		
	stVal	CB10 Delta Cnt
ISCSO2		
	stVal	CB10 Delta Cnt Target
Loc		
	stVal	Local Mode
Mod		
	stVal	CB10 Delta Cnt Enabled
SPCSO		
	stVal	CB10 Delta Cnt Operated

#### 1.4.41 OpDelGGIO11

Beh		
	stVal	CB11 Delta Cnt Enabled
		Out of Service
Health		
	stVal	Protection Healthy
ISCSO1		
	stVal	CB11 Delta Cnt
ISCSO2		
	stVal	CB11 Delta Cnt Target
Loc		

	stVal	Local Mode
Mod		
	stVal	CB11 Delta Cnt Enabled
SPCSO		
	stVal	CB11 Delta Cnt Operated

#### 1.4.42 OpDelGGIO12

Beh		
	stVal	CB12 Delta Cnt Enabled
		Out of Service
Health		
	stVal	Protection Healthy
ISCSO1		
	stVal	CB12 Delta Cnt
ISCSO2		
	stVal	CB12 Delta Cnt Target
Loc		
	stVal	Local Mode
Mod		
	stVal	CB12 Delta Cnt Enabled

#### 1.4.43 SPDOesGGIO1

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

#### 1.4.44 SPDOesGGIO2

Beh		
	stVal	Out of Service
Health		

	stVal	Protection Healthy
Loc		
	stVal	Local Mode
SPCSO		
	Oper.ctlVal	SPDOes 2 Control
	stVal	SPDOes 2 Status

**1.4.45 SPDOesGGIO3**

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

**1.4.46 SPDOesGGIO4**

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

**1.4.47 SPDOnsGGIO1**

Beh		
	stVal	Out of Service
Health		
	stVal	Protection Healthy
Loc		

	stVal	Local Mode
SPCSO		
	Oper.ctlVal	SPDOs 1 Control
	stVal	SPDOs 1 Status

**1.4.48 SPDOsGGIO2**

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

**1.4.49 SPDOsGGIO3**

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

**1.4.50 SPDOsGGIO4**

Beh		
	stVal	Out of Service
Health		
	stVal	Protection Healthy
Loc		
	stVal	Local Mode
SPCSO		

	Oper.ctlVal	SPDOs 4 Control
	stVal	SPDOs 4 Status

#### 1.4.51 SPi64GGIO1

Beh		
	stVal	Out of Service
Health		
	stVal	Protection Healthy
SPCSO1		
	ctlVal	SPi64GGIO1 SPCSO 1
SPCSO2		
	ctlVal	SPi64GGIO1 SPCSO 2
SPCSO3		
	ctlVal	SPi64GGIO1 SPCSO 3
SPCSO4		
	ctlVal	SPi64GGIO1 SPCSO 4
SPCSO5		
	ctlVal	SPi64GGIO1 SPCSO 5
SPCSO6		
	ctlVal	SPi64GGIO1 SPCSO 6
SPCSO7		
	ctlVal	SPi64GGIO1 SPCSO 7
SPCSO8		
	ctlVal	SPi64GGIO1 SPCSO 8
SPCSO9		
	ctlVal	SPi64GGIO1 SPCSO 9
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
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
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
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
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
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

#### 1.4.52 SPo32GGIO1

Beh		
	stVal	Out of Service
Health		
	stVal	Protection Healthy
Ind1		
	stVal	SPo32GGIO1 Ind 1

Ind2		
	stVal	SPo32GGIO1 Ind 2
Ind3		
	stVal	SPo32GGIO1 Ind 3
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
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

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
Ind30		
	stVal	SPo32GGIO1 Ind 30
Ind31		
	stVal	SPo32GGIO1 Ind 31
Ind32		
	stVal	SPo32GGIO1 Ind 32

#### 1.4.53 TrpCntGGIO1

Beh		
	stVal	CB Trip Cnt Enabled
		Out of Service
Health		
	stVal	Protection Healthy
ISCSO1		
	stVal	CB Trip Cnt
ISCSO2		

	stVal	CB Trip Cnt Target
Loc		
	stVal	Local Mode
Mod		
	stVal	CB Trip Cnt Enabled
SPCSO		
	stVal	CB Trip Cnt Operated

#### 1.4.54 TrpDelGGIO1

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

#### 1.4.55 V16GGIO1

Beh		
	stVal	Out of Service
Health		
	stVal	Protection Healthy
Ind1		
	stVal	Virtual Point 1
Ind2		
	stVal	Virtual Point 2
Ind3		

	stVal	Virtual Point 3
Ind4		
	stVal	Virtual Point 4
Ind5		
	stVal	Virtual Point 5
Ind6		
	stVal	Virtual Point 6
Ind7		
	stVal	Virtual Point 7
Ind8		
	stVal	Virtual Point 8
Ind9		
	stVal	Virtual Point 9
Ind10		
	stVal	Virtual Point 10
Ind11		
	stVal	Virtual Point 11
Ind12		
	stVal	Virtual Point 12
Ind13		
	stVal	Virtual Point 13
Ind14		
	stVal	Virtual Point 14
Ind15		
	stVal	Virtual Point 15
Ind16		
	stVal	Virtual Point 16

## 2 Reyrolle -> IEC 61850

### 2.1 Device

Reyrolle	DOI	DA Group
LED Reset		
	CTRL.LLN0.LEDRs	stVal
Local Mode		
	CTRL.LLN0.Loc	stVal
	CTRL.SPDOnsGGIO1.Loc	stVal
	CTRL.SPDOnsGGIO2.Loc	stVal
	CTRL.SPDOnsGGIO3.Loc	stVal
	CTRL.SPDOnsGGIO4.Loc	stVal
	CTRL.SPDOesGGIO1.Loc	stVal
	CTRL.SPDOesGGIO2.Loc	stVal
	CTRL.SPDOesGGIO3.Loc	stVal
	CTRL.SPDOesGGIO4.Loc	stVal
	CTRL.DPDOnsGGIO1.Loc	stVal
	CTRL.DPDOnsGGIO2.Loc	stVal
	CTRL.DPDOnsGGIO3.Loc	stVal
	CTRL.DPDOnsGGIO4.Loc	stVal
	CTRL.DPDOesGGIO1.Loc	stVal
	CTRL.DPDOesGGIO2.Loc	stVal
	CTRL.DPDOesGGIO3.Loc	stVal
	CTRL.DPDOesGGIO4.Loc	stVal
	CTRL.TrpCntGGIO1.Loc	stVal
	CTRL.TrpDelGGIO1.Loc	stVal
	CTRL.OpCntGGIO1.Loc	stVal
	CTRL.OpDelGGIO1.Loc	stVal
	CTRL.OpCntGGIO2.Loc	stVal
	CTRL.OpDelGGIO2.Loc	stVal
	CTRL.OpCntGGIO3.Loc	stVal
	CTRL.OpDelGGIO3.Loc	stVal
	CTRL.OpCntGGIO4.Loc	stVal
	CTRL.OpDelGGIO4.Loc	stVal
	CTRL.OpCntGGIO5.Loc	stVal



	CTRL.OpDelGGIO5.Loc	stVal
	CTRL.OpCntGGIO6.Loc	stVal
	CTRL.OpDelGGIO6.Loc	stVal
	CTRL.OpCntGGIO7.Loc	stVal
	CTRL.OpDelGGIO7.Loc	stVal
	CTRL.OpCntGGIO8.Loc	stVal
	CTRL.OpDelGGIO8.Loc	stVal
	CTRL.OpCntGGIO9.Loc	stVal
	CTRL.OpDelGGIO9.Loc	stVal
	CTRL.OpCntGGIO10.Loc	stVal
	CTRL.OpDelGGIO10.Loc	stVal
	CTRL.OpCntGGIO11.Loc	stVal
	CTRL.OpDelGGIO11.Loc	stVal
	CTRL.OpCntGGIO12.Loc	stVal
	CTRL.OpDelGGIO12.Loc	stVal
Out of Service		
	PROT.LLN0.Mod	stVal
	PROT.LLN0.Beh	stVal
	PROT.A8750PDIF1.Beh	stVal
	PROT.A8750PDIF2.Beh	stVal
	PROT.A50gPTOC1.Beh	stVal
	PROT.A50gPTOC2.Beh	stVal
	PROT.A87RefPTOC1.Beh	stVal
	PROT.A87RefPTOC2.Beh	stVal
	PROT.CT50PTOC1.Beh	stVal
	PROT.PTRC1.Beh	stVal
	CTRL.LLN0.Mod	stVal
	CTRL.LLN0.Beh	stVal
	CTRL.BI19GGIO1.Beh	stVal
	CTRL.BO16GGIO1.Beh	stVal
	CTRL.L16GGIO1.Beh	stVal
	CTRL.V16GGIO1.Beh	stVal
	CTRL.E16GGIO1.Beh	stVal
	CTRL.SPi64GGIO1.Beh	stVal
	CTRL.SPo32GGIO1.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
	CTRL.Alm32GGIO1.Beh	stVal
	CTRL.TrpCntGGIO1.Beh	stVal
	CTRL.TrpDelGGIO1.Beh	stVal
	CTRL.OpCntGGIO1.Beh	stVal
	CTRL.OpDelGGIO1.Beh	stVal
	CTRL.OpCntGGIO2.Beh	stVal
	CTRL.OpDelGGIO2.Beh	stVal
	CTRL.OpCntGGIO3.Beh	stVal
	CTRL.OpDelGGIO3.Beh	stVal
	CTRL.OpCntGGIO4.Beh	stVal
	CTRL.OpDelGGIO4.Beh	stVal
	CTRL.OpCntGGIO5.Beh	stVal
	CTRL.OpDelGGIO5.Beh	stVal
	CTRL.OpCntGGIO6.Beh	stVal
	CTRL.OpDelGGIO6.Beh	stVal
	CTRL.OpCntGGIO7.Beh	stVal
	CTRL.OpDelGGIO7.Beh	stVal

	CTRL.OpCntGGIO8.Beh	stVal
	CTRL.OpDelGGIO8.Beh	stVal
	CTRL.OpCntGGIO9.Beh	stVal
	CTRL.OpDelGGIO9.Beh	stVal
	CTRL.OpCntGGIO10.Beh	stVal
	CTRL.OpDelGGIO10.Beh	stVal
	CTRL.OpCntGGIO11.Beh	stVal
	CTRL.OpDelGGIO11.Beh	stVal
	CTRL.OpCntGGIO12.Beh	stVal
	CTRL.OpDelGGIO12.Beh	stVal
	MEAS.LLN0.Mod	stVal
	MEAS.LLN0.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.PTRC1.Mod	stVal
	PROT.PTRC1.Beh	stVal
Protection Healthy		
	PROT.LLN0.Health	stVal
	PROT.A8750PDIF1.Health	stVal
	PROT.A8750PDIF2.Health	stVal
	PROT.A50gPTOC1.Health	stVal
	PROT.A50gPTOC2.Health	stVal
	PROT.A87RefPTOC1.Health	stVal
	PROT.A87RefPTOC2.Health	stVal
	PROT.CT50PTOC1.Health	stVal
	PROT.PTRC1.Health	stVal
	CTRL.LLN0.Mod	stVal
	CTRL.LLN0.Beh	stVal
	CTRL.LLN0.Health	stVal
	CTRL.BI19GGIO1.Health	stVal
	CTRL.BO16GGIO1.Health	stVal
	CTRL.L16GGIO1.Health	stVal

	CTRL.V16GGIO1.Health	stVal
	CTRL.E16GGIO1.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
	CTRL.AIm32GGIO1.Health	stVal
	CTRL.TrpCntGGIO1.Health	stVal
	CTRL.TrpDelGGIO1.Health	stVal
	CTRL.OpCntGGIO1.Health	stVal
	CTRL.OpDelGGIO1.Health	stVal
	CTRL.OpCntGGIO2.Health	stVal
	CTRL.OpDelGGIO2.Health	stVal
	CTRL.OpCntGGIO3.Health	stVal
	CTRL.OpDelGGIO3.Health	stVal
	CTRL.OpCntGGIO4.Health	stVal
	CTRL.OpDelGGIO4.Health	stVal
	CTRL.OpCntGGIO5.Health	stVal

	CTRL.OpDelGGIO5.Health	stVal
	CTRL.OpCntGGIO6.Health	stVal
	CTRL.OpDelGGIO6.Health	stVal
	CTRL.OpCntGGIO7.Health	stVal
	CTRL.OpDelGGIO7.Health	stVal
	CTRL.OpCntGGIO8.Health	stVal
	CTRL.OpDelGGIO8.Health	stVal
	CTRL.OpCntGGIO9.Health	stVal
	CTRL.OpDelGGIO9.Health	stVal
	CTRL.OpCntGGIO10.Health	stVal
	CTRL.OpDelGGIO10.Health	stVal
	CTRL.OpCntGGIO11.Health	stVal
	CTRL.OpDelGGIO11.Health	stVal
	CTRL.OpCntGGIO12.Health	stVal
	CTRL.OpDelGGIO12.Health	stVal
	MEAS.LLN0.Mod	stVal
	MEAS.LLN0.Beh	stVal
	MEAS.LLN0.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

## 2.2 Binary Inputs

Reyrolle	DOI	DA Group
Binary Input 1		
	CTRL.BI19GGIO1.Ind1	stVal
Binary Input 2		
	CTRL.BI19GGIO1.Ind2	stVal
Binary Input 3		
	CTRL.BI19GGIO1.Ind3	stVal
Binary Input 4		
	CTRL.BI19GGIO1.Ind4	stVal
Binary Input 5		
	CTRL.BI19GGIO1.Ind5	stVal
Binary Input 6		
	CTRL.BI19GGIO1.Ind6	stVal
Binary Input 7		
	CTRL.BI19GGIO1.Ind7	stVal
Binary Input 8		
	CTRL.BI19GGIO1.Ind8	stVal
Binary Input 9		
	CTRL.BI19GGIO1.Ind9	stVal
Binary Input 10		
	CTRL.BI19GGIO1.Ind10	stVal
Binary Input 11		
	CTRL.BI19GGIO1.Ind11	stVal
Binary Input 12		
	CTRL.BI19GGIO1.Ind12	stVal
Binary Input 13		
	CTRL.BI19GGIO1.Ind13	stVal
Binary Input 14		
	CTRL.BI19GGIO1.Ind14	stVal
Binary Input 15		
	CTRL.BI19GGIO1.Ind15	stVal
Binary Input 16		
	CTRL.BI19GGIO1.Ind16	stVal
Binary Input 17		

	CTRL.BI19GGIO1.Ind17	stVal
Binary Input 18		
	CTRL.BI19GGIO1.Ind18	stVal
Binary Input 19		
	CTRL.BI19GGIO1.Ind19	stVal

## 2.3 Binary Outputs

Reyrolle	DOI	DA Group
Binary Output 1		
	CTRL.BO16GGIO1.Ind1	stVal
Binary Output 2		
	CTRL.BO16GGIO1.Ind2	stVal
Binary Output 3		
	CTRL.BO16GGIO1.Ind3	stVal
Binary Output 4		
	CTRL.BO16GGIO1.Ind4	stVal
Binary Output 5		
	CTRL.BO16GGIO1.Ind5	stVal
Binary Output 6		
	CTRL.BO16GGIO1.Ind6	stVal
Binary Output 7		
	CTRL.BO16GGIO1.Ind7	stVal
Binary Output 8		
	CTRL.BO16GGIO1.Ind8	stVal
Binary Output 9		
	CTRL.BO16GGIO1.Ind9	stVal
Binary Output 10		
	CTRL.BO16GGIO1.Ind10	stVal
Binary Output 11		
	CTRL.BO16GGIO1.Ind11	stVal
Binary Output 12		
	CTRL.BO16GGIO1.Ind12	stVal
Binary Output 13		
	CTRL.BO16GGIO1.Ind13	stVal
Binary Output 14		

	CTRL.BO16GGIO1.Ind14	stVal
Binary Output 15		
	CTRL.BO16GGIO1.Ind15	stVal
Binary Output 16		
	CTRL.BO16GGIO1.Ind16	stVal

## 2.4 CB Open Counters

Reyrolle	DOI	DA Group
CB1 Delta Cnt		
	CTRL.OpDelGGIO1.ISCSO1	stVal
CB1 Delta Cnt Enabled		
	CTRL.OpDelGGIO1.Mod	stVal
	CTRL.OpDelGGIO1.Beh	stVal
CB1 Delta Cnt Operated		
	CTRL.OpDelGGIO1.SPCSO	stVal
CB1 Delta Cnt Target		
	CTRL.OpDelGGIO1.ISCSO2	stVal
CB1 Open Cnt		
	CTRL.OpCntGGIO1.ISCSO1	stVal
CB1 Open Cnt Enabled		
	CTRL.OpCntGGIO1.Mod	stVal
	CTRL.OpCntGGIO1.Beh	stVal
CB1 Open Cnt Operated		
	CTRL.OpCntGGIO1.SPCSO	stVal
CB1 Open Cnt Target		
	CTRL.OpCntGGIO1.ISCSO2	stVal
CB2 Delta Cnt		
	CTRL.OpDelGGIO2.ISCSO1	stVal
CB2 Delta Cnt Enabled		
	CTRL.OpDelGGIO2.Mod	stVal
	CTRL.OpDelGGIO2.Beh	stVal
CB2 Delta Cnt Operated		
	CTRL.OpDelGGIO2.SPCSO	stVal
CB2 Delta Cnt Target		
	CTRL.OpDelGGIO2.ISCSO2	stVal



CB2 Open Cnt		
	CTRL.OpCntGGIO2.ISCSO1	stVal
CB2 Open Cnt Enabled		
	CTRL.OpCntGGIO2.Mod	stVal
	CTRL.OpCntGGIO2.Beh	stVal
CB2 Open Cnt Operated		
	CTRL.OpCntGGIO2.SPCSO	stVal
CB2 Open Cnt Target		
	CTRL.OpCntGGIO2.ISCSO2	stVal
CB3 Delta Cnt		
	CTRL.OpDelGGIO3.ISCSO1	stVal
CB3 Delta Cnt Enabled		
	CTRL.OpDelGGIO3.Mod	stVal
	CTRL.OpDelGGIO3.Beh	stVal
CB3 Delta Cnt Operated		
	CTRL.OpDelGGIO3.SPCSO	stVal
CB3 Delta Cnt Target		
	CTRL.OpDelGGIO3.ISCSO2	stVal
CB3 Open Cnt		
	CTRL.OpCntGGIO3.ISCSO1	stVal
CB3 Open Cnt Enabled		
	CTRL.OpCntGGIO3.Mod	stVal
	CTRL.OpCntGGIO3.Beh	stVal
CB3 Open Cnt Operated		
	CTRL.OpCntGGIO3.SPCSO	stVal
CB3 Open Cnt Target		
	CTRL.OpCntGGIO3.ISCSO2	stVal
CB4 Delta Cnt		
	CTRL.OpDelGGIO4.ISCSO1	stVal
CB4 Delta Cnt Enabled		
	CTRL.OpDelGGIO4.Mod	stVal
	CTRL.OpDelGGIO4.Beh	stVal
CB4 Delta Cnt Operated		
	CTRL.OpDelGGIO4.SPCSO	stVal
CB4 Delta Cnt Target		
	CTRL.OpDelGGIO4.ISCSO2	stVal

CB4 Open Cnt		
	CTRL.OpCntGGIO4.ISCSO1	stVal
CB4 Open Cnt Enabled		
	CTRL.OpCntGGIO4.Mod	stVal
	CTRL.OpCntGGIO4.Beh	stVal
CB4 Open Cnt Operated		
	CTRL.OpCntGGIO4.SPCSO	stVal
CB4 Open Cnt Target		
	CTRL.OpCntGGIO4.ISCSO2	stVal
CB5 Delta Cnt		
	CTRL.OpDelGGIO5.ISCSO1	stVal
CB5 Delta Cnt Enabled		
	CTRL.OpDelGGIO5.Mod	stVal
	CTRL.OpDelGGIO5.Beh	stVal
CB5 Delta Cnt Operated		
	CTRL.OpDelGGIO5.SPCSO	stVal
CB5 Delta Cnt Target		
	CTRL.OpDelGGIO5.ISCSO2	stVal
CB5 Open Cnt		
	CTRL.OpCntGGIO5.ISCSO1	stVal
CB5 Open Cnt Enabled		
	CTRL.OpCntGGIO5.Mod	stVal
	CTRL.OpCntGGIO5.Beh	stVal
CB5 Open Cnt Operated		
	CTRL.OpCntGGIO5.SPCSO	stVal
CB5 Open Cnt Target		
	CTRL.OpCntGGIO5.ISCSO2	stVal
CB6 Delta Cnt		
	CTRL.OpDelGGIO6.ISCSO1	stVal
CB6 Delta Cnt Enabled		
	CTRL.OpDelGGIO6.Mod	stVal
	CTRL.OpDelGGIO6.Beh	stVal
CB6 Delta Cnt Operated		
	CTRL.OpDelGGIO6.SPCSO	stVal
CB6 Delta Cnt Target		
	CTRL.OpDelGGIO6.ISCSO2	stVal

CB6 Open Cnt		
	CTRL.OpCntGGIO6.ISCSO1	stVal
CB6 Open Cnt Enabled		
	CTRL.OpCntGGIO6.Mod	stVal
	CTRL.OpCntGGIO6.Beh	stVal
CB6 Open Cnt Operated		
	CTRL.OpCntGGIO6.SPCSO	stVal
CB6 Open Cnt Target		
	CTRL.OpCntGGIO6.ISCSO2	stVal
CB7 Delta Cnt		
	CTRL.OpDelGGIO7.ISCSO1	stVal
CB7 Delta Cnt Enabled		
	CTRL.OpDelGGIO7.Mod	stVal
	CTRL.OpDelGGIO7.Beh	stVal
CB7 Delta Cnt Operated		
	CTRL.OpDelGGIO7.SPCSO	stVal
CB7 Delta Cnt Target		
	CTRL.OpDelGGIO7.ISCSO2	stVal
CB7 Open Cnt		
	CTRL.OpCntGGIO7.ISCSO1	stVal
CB7 Open Cnt Enabled		
	CTRL.OpCntGGIO7.Mod	stVal
	CTRL.OpCntGGIO7.Beh	stVal
CB7 Open Cnt Operated		
	CTRL.OpCntGGIO7.SPCSO	stVal
CB7 Open Cnt Target		
	CTRL.OpCntGGIO7.ISCSO2	stVal
CB8 Delta Cnt		
	CTRL.OpDelGGIO8.ISCSO1	stVal
CB8 Delta Cnt Enabled		
	CTRL.OpDelGGIO8.Mod	stVal
	CTRL.OpDelGGIO8.Beh	stVal
CB8 Delta Cnt Operated		
	CTRL.OpDelGGIO8.SPCSO	stVal
CB8 Delta Cnt Target		
	CTRL.OpDelGGIO8.ISCSO2	stVal

CB8 Open Cnt		
	CTRL.OpCntGGIO8.ISCSO1	stVal
CB8 Open Cnt Enabled		
	CTRL.OpCntGGIO8.Mod	stVal
	CTRL.OpCntGGIO8.Beh	stVal
CB8 Open Cnt Operated		
	CTRL.OpCntGGIO8.SPCSO	stVal
CB8 Open Cnt Target		
	CTRL.OpCntGGIO8.ISCSO2	stVal
CB9 Delta Cnt		
	CTRL.OpDelGGIO9.ISCSO1	stVal
CB9 Delta Cnt Enabled		
	CTRL.OpDelGGIO9.Mod	stVal
	CTRL.OpDelGGIO9.Beh	stVal
CB9 Delta Cnt Operated		
	CTRL.OpDelGGIO9.SPCSO	stVal
CB9 Delta Cnt Target		
	CTRL.OpDelGGIO9.ISCSO2	stVal
CB9 Open Cnt		
	CTRL.OpCntGGIO9.ISCSO1	stVal
CB9 Open Cnt Enabled		
	CTRL.OpCntGGIO9.Mod	stVal
	CTRL.OpCntGGIO9.Beh	stVal
CB9 Open Cnt Operated		
	CTRL.OpCntGGIO9.SPCSO	stVal
CB9 Open Cnt Target		
	CTRL.OpCntGGIO9.ISCSO2	stVal
CB10 Delta Cnt		
	CTRL.OpDelGGIO10.ISCSO1	stVal
CB10 Delta Cnt Enabled		
	CTRL.OpDelGGIO10.Mod	stVal
	CTRL.OpDelGGIO10.Beh	stVal
CB10 Delta Cnt Operated		
	CTRL.OpDelGGIO10.SPCSO	stVal
CB10 Delta Cnt Target		
	CTRL.OpDelGGIO10.ISCSO2	stVal

CB10 Open Cnt		
	CTRL.OpCntGGIO10.ISCSO1	stVal
CB10 Open Cnt Enabled		
	CTRL.OpCntGGIO10.Mod	stVal
	CTRL.OpCntGGIO10.Beh	stVal
CB10 Open Cnt Operated		
	CTRL.OpCntGGIO10.SPCSO	stVal
CB10 Open Cnt Target		
	CTRL.OpCntGGIO10.ISCSO2	stVal
CB11 Delta Cnt		
	CTRL.OpDelGGIO11.ISCSO1	stVal
CB11 Delta Cnt Enabled		
	CTRL.OpDelGGIO11.Mod	stVal
	CTRL.OpDelGGIO11.Beh	stVal
CB11 Delta Cnt Operated		
	CTRL.OpDelGGIO11.SPCSO	stVal
CB11 Delta Cnt Target		
	CTRL.OpDelGGIO11.ISCSO2	stVal
CB11 Open Cnt		
	CTRL.OpCntGGIO11.ISCSO1	stVal
CB11 Open Cnt Enabled		
	CTRL.OpCntGGIO11.Mod	stVal
	CTRL.OpCntGGIO11.Beh	stVal
CB11 Open Cnt Operated		
	CTRL.OpCntGGIO11.SPCSO	stVal
CB11 Open Cnt Target		
	CTRL.OpCntGGIO11.ISCSO2	stVal
CB12 Delta Cnt		
	CTRL.OpDelGGIO12.ISCSO1	stVal
CB12 Delta Cnt Enabled		
	CTRL.OpDelGGIO12.Mod	stVal
	CTRL.OpDelGGIO12.Beh	stVal
CB12 Delta Cnt Operated		
	CTRL.OpDelGGIO12.SPCSO	stVal
CB12 Delta Cnt Target		
	CTRL.OpDelGGIO12.ISCSO2	stVal

CB12 Open Cnt		
	CTRL.OpCntGGIO12.ISCSO1	stVal
CB12 Open Cnt Enabled		
	CTRL.OpCntGGIO12.Mod	stVal
	CTRL.OpCntGGIO12.Beh	stVal
CB12 Open Cnt Operated		
	CTRL.OpCntGGIO12.SPCSO	stVal
CB12 Open Cnt Target		
	CTRL.OpCntGGIO12.ISCSO2	stVal

## 2.5 CB Trip Counters

Reyrolle	DOI	DA Group
CB Delta Cnt		
	CTRL.TrpDelGGIO1.ISCSO1	stVal
CB Delta Cnt Enabled		
	CTRL.TrpDelGGIO1.Mod	stVal
	CTRL.TrpDelGGIO1.Beh	stVal
CB Delta Cnt Operated		
	CTRL.TrpDelGGIO1.SPCSO	stVal
CB Delta Cnt Target		
	CTRL.TrpDelGGIO1.ISCSO2	stVal
CB Trip Cnt		
	CTRL.TrpCntGGIO1.ISCSO1	stVal
CB Trip Cnt Enabled		
	CTRL.TrpCntGGIO1.Mod	stVal
	CTRL.TrpCntGGIO1.Beh	stVal
CB Trip Cnt Operated		
	CTRL.TrpCntGGIO1.SPCSO	stVal
CB Trip Cnt Target		
	CTRL.TrpCntGGIO1.ISCSO2	stVal

## 2.6 Change Group

Reyrolle	DOI	DA Group
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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

## 2.7 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

## 2.8 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

## 2.9 Double Point Controls (Normal Security)

Reyrolle	DOI	DA Group
DPDOs 1 Control		
	CTRL.DPDOsGGIO1.DPCSO	Oper.ctlVal
DPDOs 1 Status		
	CTRL.DPDOsGGIO1.DPCSO	stVal
DPDOs 2 Control		
	CTRL.DPDOsGGIO2.DPCSO	Oper.ctlVal
DPDOs 2 Status		
	CTRL.DPDOsGGIO2.DPCSO	stVal
DPDOs 3 Control		
	CTRL.DPDOsGGIO3.DPCSO	Oper.ctlVal
DPDOs 3 Status		
	CTRL.DPDOsGGIO3.DPCSO	stVal
DPDOs 4 Control		
	CTRL.DPDOsGGIO4.DPCSO	Oper.ctlVal
DPDOs 4 Status		
	CTRL.DPDOsGGIO4.DPCSO	stVal

## 2.10 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

## 2.11 Double Point Outputs

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

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

## 2.12 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

## 2.13 LEDs

Reyrolle	DOI	DA Group
LED 1		
	CTRL.L16GGIO1.Ind1	stVal
LED 2		
	CTRL.L16GGIO1.Ind2	stVal
LED 3		
	CTRL.L16GGIO1.Ind3	stVal
LED 4		
	CTRL.L16GGIO1.Ind4	stVal
LED 5		
	CTRL.L16GGIO1.Ind5	stVal
LED 6		
	CTRL.L16GGIO1.Ind6	stVal
LED 7		
	CTRL.L16GGIO1.Ind7	stVal
LED 8		
	CTRL.L16GGIO1.Ind8	stVal
LED 9		
	CTRL.L16GGIO1.Ind9	stVal
LED 10		
	CTRL.L16GGIO1.Ind10	stVal
LED 11		
	CTRL.L16GGIO1.Ind11	stVal
LED 12		
	CTRL.L16GGIO1.Ind12	stVal
LED 13		
	CTRL.L16GGIO1.Ind13	stVal
LED 14		
	CTRL.L16GGIO1.Ind14	stVal
LED 15		
	CTRL.L16GGIO1.Ind15	stVal
LED 16		
	CTRL.L16GGIO1.Ind16	stVal

## 2.14 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
Inhibit 50G-1		
	PROT.A50gPTOC1.Mod	stVal
	PROT.A50gPTOC1.Beh	stVal
Inhibit 50G-2		
	PROT.A50gPTOC2.Mod	stVal
	PROT.A50gPTOC2.Beh	stVal

## 2.15 Quick Logic Equations

Reyrolle	DOI	DA Group
Quick Logic Equation 1		
	CTRL.E16GGIO1.Ind1	stVal
Quick Logic Equation 2		
	CTRL.E16GGIO1.Ind2	stVal
Quick Logic Equation 3		
	CTRL.E16GGIO1.Ind3	stVal
Quick Logic Equation 4		
	CTRL.E16GGIO1.Ind4	stVal
Quick Logic Equation 5		
	CTRL.E16GGIO1.Ind5	stVal
Quick Logic Equation 6		
	CTRL.E16GGIO1.Ind6	stVal
Quick Logic Equation 7		
	CTRL.E16GGIO1.Ind7	stVal
Quick Logic Equation 8		
	CTRL.E16GGIO1.Ind8	stVal
Quick Logic Equation 9		
	CTRL.E16GGIO1.Ind9	stVal
Quick Logic Equation 10		
	CTRL.E16GGIO1.Ind10	stVal
Quick Logic Equation 11		
	CTRL.E16GGIO1.Ind11	stVal
Quick Logic Equation 12		
	CTRL.E16GGIO1.Ind12	stVal
Quick Logic Equation 13		
	CTRL.E16GGIO1.Ind13	stVal
Quick Logic Equation 14		
	CTRL.E16GGIO1.Ind14	stVal
Quick Logic Equation 15		
	CTRL.E16GGIO1.Ind15	stVal
Quick Logic Equation 16		
	CTRL.E16GGIO1.Ind16	stVal

## 2.16 Restricted Earth Fault

Reyrolle	DOI	DA Group
87REF-1 Enabled		
	PROT.A87RefPTOC1.Mod	stVal
	PROT.A87RefPTOC1.Beh	stVal
87REF-1 Operated		
	PROT.A87RefPTOC1.Op	general
87REF-1 Pickup		
	PROT.A87RefPTOC1.Str	general
87REF-2 Enabled		
	PROT.A87RefPTOC2.Mod	stVal
	PROT.A87RefPTOC2.Beh	stVal
87REF-2 Operated		
	PROT.A87RefPTOC2.Op	general
87REF-2 Pickup		
	PROT.A87RefPTOC2.Str	general
Inhibit 87REF-1		
	PROT.A87RefPTOC1.Mod	stVal
	PROT.A87RefPTOC1.Beh	stVal
Inhibit 87REF-2		
	PROT.A87RefPTOC2.Mod	stVal
	PROT.A87RefPTOC2.Beh	stVal

## 2.17 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



## 2.18 Single Point Controls (Normal Security)

Reyrolle	DOI	DA Group
SPDOs 1 Control		
	CTRL.SPDOsGGIO1.SPCSO	Oper.ctlVal
SPDOs 1 Status		
	CTRL.SPDOsGGIO1.SPCSO	stVal
SPDOs 2 Control		
	CTRL.SPDOsGGIO2.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

## 2.19 Single Point Inputs

Reyrolle	DOI	DA Group
SPI64GGIO1 SPCSO 1		
	CTRL.SPI64GGIO1.SPCSO1	ctlVal
SPI64GGIO1 SPCSO 2		
	CTRL.SPI64GGIO1.SPCSO2	ctlVal
SPI64GGIO1 SPCSO 3		
	CTRL.SPI64GGIO1.SPCSO3	ctlVal
SPI64GGIO1 SPCSO 4		
	CTRL.SPI64GGIO1.SPCSO4	ctlVal
SPI64GGIO1 SPCSO 5		
	CTRL.SPI64GGIO1.SPCSO5	ctlVal
SPI64GGIO1 SPCSO 6		
	CTRL.SPI64GGIO1.SPCSO6	ctlVal
SPI64GGIO1 SPCSO 7		
	CTRL.SPI64GGIO1.SPCSO7	ctlVal
SPI64GGIO1 SPCSO 8		
	CTRL.SPI64GGIO1.SPCSO8	ctlVal
SPI64GGIO1 SPCSO 9		
	CTRL.SPI64GGIO1.SPCSO9	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	ctIVal
SPi64GGIO1 SPCSO 18		
	CTRL.SPi64GGIO1.SPCSO18	ctIVal
SPi64GGIO1 SPCSO 19		
	CTRL.SPi64GGIO1.SPCSO19	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 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	ctlVal
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 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 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	ctlVal
SPi64GGIO1 SPCSO 54		
	CTRL.SPi64GGIO1.SPCSO54	ctlVal
SPi64GGIO1 SPCSO 55		
	CTRL.SPi64GGIO1.SPCSO55	ctlVal
SPi64GGIO1 SPCSO 56		
	CTRL.SPi64GGIO1.SPCSO56	ctlVal
SPi64GGIO1 SPCSO 57		
	CTRL.SPi64GGIO1.SPCSO57	ctlVal
SPi64GGIO1 SPCSO 58		
	CTRL.SPi64GGIO1.SPCSO58	ctlVal
SPi64GGIO1 SPCSO 59		
	CTRL.SPi64GGIO1.SPCSO59	ctlVal
SPi64GGIO1 SPCSO 60		
	CTRL.SPi64GGIO1.SPCSO60	ctlVal
SPi64GGIO1 SPCSO 61		
	CTRL.SPi64GGIO1.SPCSO61	ctlVal
SPi64GGIO1 SPCSO 62		
	CTRL.SPi64GGIO1.SPCSO62	ctlVal
SPi64GGIO1 SPCSO 63		
	CTRL.SPi64GGIO1.SPCSO63	ctlVal
SPi64GGIO1 SPCSO 64		
	CTRL.SPi64GGIO1.SPCSO64	ctlVal

## 2.20 Single Point Outputs

Reyrolle	DOI	DA Group
SPo32GGIO1 Ind 1		
	CTRL.SPo32GGIO1.Ind1	stVal
SPo32GGIO1 Ind 2		
	CTRL.SPo32GGIO1.Ind2	stVal
SPo32GGIO1 Ind 3		
	CTRL.SPo32GGIO1.Ind3	stVal
SPo32GGIO1 Ind 4		
	CTRL.SPo32GGIO1.Ind4	stVal
SPo32GGIO1 Ind 5		
	CTRL.SPo32GGIO1.Ind5	stVal
SPo32GGIO1 Ind 6		
	CTRL.SPo32GGIO1.Ind6	stVal
SPo32GGIO1 Ind 7		
	CTRL.SPo32GGIO1.Ind7	stVal
SPo32GGIO1 Ind 8		
	CTRL.SPo32GGIO1.Ind8	stVal
SPo32GGIO1 Ind 9		
	CTRL.SPo32GGIO1.Ind9	stVal
SPo32GGIO1 Ind 10		
	CTRL.SPo32GGIO1.Ind10	stVal
SPo32GGIO1 Ind 11		
	CTRL.SPo32GGIO1.Ind11	stVal
SPo32GGIO1 Ind 12		
	CTRL.SPo32GGIO1.Ind12	stVal
SPo32GGIO1 Ind 13		
	CTRL.SPo32GGIO1.Ind13	stVal
SPo32GGIO1 Ind 14		
	CTRL.SPo32GGIO1.Ind14	stVal
SPo32GGIO1 Ind 15		
	CTRL.SPo32GGIO1.Ind15	stVal
SPo32GGIO1 Ind 16		
	CTRL.SPo32GGIO1.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 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 30		
	CTRL.SP032GGIO1.Ind30	stVal
SPo32GGIO1 Ind 31		
	CTRL.SP032GGIO1.Ind31	stVal
SPo32GGIO1 Ind 32		
	CTRL.SP032GGIO1.Ind32	stVal

## 2.21 User Alarms

Reyrolle	DOI	DA Group
Alarm 1		
	CTRL.Alm32GGIO1.Ind1	stVal
Alarm 2		
	CTRL.Alm32GGIO1.Ind2	stVal
Alarm 3		
	CTRL.Alm32GGIO1.Ind3	stVal
Alarm 4		
	CTRL.Alm32GGIO1.Ind4	stVal
Alarm 5		
	CTRL.Alm32GGIO1.Ind5	stVal
Alarm 6		
	CTRL.Alm32GGIO1.Ind6	stVal
Alarm 7		
	CTRL.Alm32GGIO1.Ind7	stVal
Alarm 8		
	CTRL.Alm32GGIO1.Ind8	stVal
Alarm 9		
	CTRL.Alm32GGIO1.Ind9	stVal
Alarm 10		
	CTRL.Alm32GGIO1.Ind10	stVal
Alarm 11		
	CTRL.Alm32GGIO1.Ind11	stVal
Alarm 12		
	CTRL.Alm32GGIO1.Ind12	stVal
Alarm 13		
	CTRL.Alm32GGIO1.Ind13	stVal
Alarm 14		
	CTRL.Alm32GGIO1.Ind14	stVal
Alarm 15		
	CTRL.Alm32GGIO1.Ind15	stVal
Alarm 16		
	CTRL.Alm32GGIO1.Ind16	stVal
Alarm 17		



	CTRL.Alm32GGIO1.Ind17	stVal
Alarm 18		
	CTRL.Alm32GGIO1.Ind18	stVal
Alarm 19		
	CTRL.Alm32GGIO1.Ind19	stVal
Alarm 20		
	CTRL.Alm32GGIO1.Ind20	stVal
Alarm 21		
	CTRL.Alm32GGIO1.Ind21	stVal
Alarm 22		
	CTRL.Alm32GGIO1.Ind22	stVal
Alarm 23		
	CTRL.Alm32GGIO1.Ind23	stVal
Alarm 24		
	CTRL.Alm32GGIO1.Ind24	stVal
Alarm 25		
	CTRL.Alm32GGIO1.Ind25	stVal
Alarm 26		
	CTRL.Alm32GGIO1.Ind26	stVal
Alarm 27		
	CTRL.Alm32GGIO1.Ind27	stVal
Alarm 28		
	CTRL.Alm32GGIO1.Ind28	stVal
Alarm 29		
	CTRL.Alm32GGIO1.Ind29	stVal
Alarm 30		
	CTRL.Alm32GGIO1.Ind30	stVal
Alarm 31		
	CTRL.Alm32GGIO1.Ind31	stVal
Alarm 32		
	CTRL.Alm32GGIO1.Ind32	stVal

## 2.22 Virtuals

Reyrolle	DOI	DA Group
Virtual Point 1		
	CTRL.V16GGIO1.Ind1	stVal
Virtual Point 2		
	CTRL.V16GGIO1.Ind2	stVal
Virtual Point 3		
	CTRL.V16GGIO1.Ind3	stVal
Virtual Point 4		
	CTRL.V16GGIO1.Ind4	stVal
Virtual Point 5		
	CTRL.V16GGIO1.Ind5	stVal
Virtual Point 6		
	CTRL.V16GGIO1.Ind6	stVal
Virtual Point 7		
	CTRL.V16GGIO1.Ind7	stVal
Virtual Point 8		
	CTRL.V16GGIO1.Ind8	stVal
Virtual Point 9		
	CTRL.V16GGIO1.Ind9	stVal
Virtual Point 10		
	CTRL.V16GGIO1.Ind10	stVal
Virtual Point 11		
	CTRL.V16GGIO1.Ind11	stVal
Virtual Point 12		
	CTRL.V16GGIO1.Ind12	stVal
Virtual Point 13		
	CTRL.V16GGIO1.Ind13	stVal
Virtual Point 14		
	CTRL.V16GGIO1.Ind14	stVal
Virtual Point 15		
	CTRL.V16GGIO1.Ind15	stVal
Virtual Point 16		
	CTRL.V16GGIO1.Ind16	stVal