

# **7SR210 Non-Directional Relay**

## **MICS**

### **(Model Implementation Conformance Statement)**

**(Software Version 2435H85008R7a-7a**

*Description of the IEC61850 device mapping.*

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## Document Release History

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## Software Revision History

2011/05	2435H85008R7a-7a	First Release
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# 1. REYROLLE 7SR210 – IEC61850

## 1.1 Function - Device

Reyrolle 7SR220	DOI	DA Group
ProtectionHealthy		
	PROT.LLNO PROT.Health	stVal
	PROT.LPHD1 PROT.PhyHealth	stVal
	PROT.PTRC1.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.A51gPTOC1.Health	stVal
	PROT.A51gPTOC2.Health	stVal
	PROT.A50gPTOC1.Health	stVal
	PROT.A50gPTOC2.Health	stVal
	PROT.A51SefPTOC1.Health	stVal
	PROT.A51SefPTOC2.Health	stVal
	PROT.A50SefPTOC1.Health	stVal
	PROT.A50SefPTOC2.Health	stVal
	PROT.A64hPTOC1.Health	stVal
	PROT.A46ltPTOC1.Health	stVal
	PROT.A46DtPTOC1.Health	stVal
	PROT.A37PTUC1.Health	stVal
	PROT.A37PTUC2.Health	stVal
	PROT.A37gPTUC1.Health	stVal
	PROT.A37gPTUC2.Health	stVal
	PROT.A37SefPTUC1.Health	stVal
	PROT.A37SefPTUC2.Health	stVal
	PROT.A49PTTR1.Health	stVal
	MEAS.LLNO MEAS.Health	stVal
	MEAS.LPHD1 MEAS.PhyHealth	stVal
	MEAS.MMXU1.Health	stVal
	CTRL.LLNO CTRL.Health	stVal
	CTRL.LPHD1 CTRL.PhyHealth	stVal
	CTRL.Q0CSW11.Health	stVal
	CTRL.Q0CSW11.Mod	stVal
	CTRL.Q0CSW11.Beh	stVal

Reyrolle 7SR220	DOI	DA Group
	CTRL.Q0XCBR1.Health	stVal
	CTRL.Q0XCBR1.Mod	stVal
	CTRL.Q0XCBR1.Beh	stVal
	CTRL.Q0CILO1.Health	stVal
	CTRL.Q0CILO1.Mod	stVal
	CTRL.Q0CILO1.Beh	stVal
	CTRL.BI19GGIO1.Health	stVal
	CTRL.BO16GGIO1.Health	stVal
	CTRL.L16GGIO1.Health	stVal
	CTRL.E16GGIO1.Health	stVal
	CTRL.V16GGIO1.Health	stVal
	CTRL.SPi64GGIO1.Health	stVal
	CTRL.SPo32GGIO1.Health	stVal
	CTRL.SPDOsGGIO1.Health	stVal
	CTRL.SPDOsGGIO2.Health	stVal
	CTRL.SPDOsGGIO3.Health	stVal
	CTRL.SPDOsGGIO4.Health	stVal
	CTRL.SPDOesGGIO1.Health	stVal
	CTRL.SPDOesGGIO2.Health	stVal
	CTRL.SPDOesGGIO3.Health	stVal
	CTRL.SPDOesGGIO4.Health	stVal
	CTRL.DPDOsGGIO1.Health	stVal
	CTRL.DPDOsGGIO2.Health	stVal
	CTRL.DPDOsGGIO3.Health	stVal
	CTRL.DPDOsGGIO4.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
	DR.LLN0 DR.Health	stVal
	DR.LPHD1 DR.PhyHealth	stVal
	DR.RDRE1.Health	stVal
MLFB Number		
	PROT.LPHD1 PROT.PhyNam	model
	MEAS.LPHD1 MEAS.PhyNam	model
	DR.LPHD1 DR.PhyNam	model
	CTRL.LPHD1 CTRL.PhyNam	model
Serial Number		

Reyrolle 7SR220	DOI	DA Group
	PROT.LPHD1 PROT.PhyNam	serNum
	MEAS.LPHD1 MEAS.PhyNam	serNum
	DR.LPHD1 DR.PhyNam	serNum
	CTRL.LPHD1 CTRL.PhyNam	serNum
Software Revision		
	PROT.LPHD1 PROT.PhyNam	swRev
	MEAS.LPHD1 MEAS.PhyNam	swRev
	DR.LPHD1 DR.PhyNam	swRev
	CTRL.LPHD1 CTRL.PhyNam	swRev
Vendor Name		
	PROT.LPHD1 PROT.PhyNam	vendor
	MEAS.LPHD1 MEAS.PhyNam	vendor
	DR.LPHD1 DR.PhyNam	vendor
	CTRL.LPHD1 CTRL.PhyNam	vendor
Num 61850 Controllable Setting Groups		
	PROT.LLNO PROT.SGCB	NumOfSG
Active Setting Group		
	PROT.LLNO PROT.SGCB	ActSG
Phase Overcurrent Enabled		
	PROT.A51PTOC1.Mod	stVal
	PROT.A51PTOC1.Beh	stVal
	PROT.A51PTOC2.Mod	stVal
	PROT.A51PTOC2.Beh	stVal
	PROT.A50PTOC1.Mod	stVal
	PROT.A50PTOC1.Beh	stVal
	PROT.A50PTOC2.Mod	stVal
	PROT.A50PTOC2.Beh	stVal
51-1 Enabled		
	PROT.A51PTOC1.Mod	stVal
	PROT.A51PTOC1.Beh	stVal
Inhibit 51-1		
	PROT.A51PTOC1.Mod	stVal
	PROT.A51PTOC1.Beh	stVal
51-1 PhA Pickup		
	PROT.A51PTOC1.Str	general (3-pole)
	PROT.A51PTOC1.Str	phsA (L1)
51-1 PhB Pickup		
	PROT.A51PTOC1.Str	general (3-pole)
	PROT.A51PTOC1.Str	phsB (L2)
51-1 PhC Pickup		
	PROT.A51PTOC1.Str	general (3-pole)
	PROT.A51PTOC1.Str	phsC (L3)

Reyrolle 7SR220	DOI	DA Group
51-1 Operated		
	PROT.A51PTOC1.Op	general (3-pole)
51-2 Enabled		
	PROT.A51PTOC2.Mod	stVal
	PROT.A51PTOC2.Beh	stVal
Inhibit 51-2		
	PROT.A51PTOC2.Mod	stVal
	PROT.A51PTOC2.Beh	stVal
51-2 PhA Pickup		
	PROT.A51PTOC2.Str	general (3-pole)
	PROT.A51PTOC2.Str	phsA (L1)
51-2 PhB Pickup		
	PROT.A51PTOC2.Str	general (3-pole)
	PROT.A51PTOC2.Str	phsB (L2)
51-2 PhC Pickup		
	PROT.A51PTOC2.Str	general (3-pole)
	PROT.A51PTOC2.Str	phsC (L3)
51-2 Operated		
	PROT.A51PTOC2.Op	general (3-pole)
50-1 Enabled		
	PROT.A50PTOC1.Mod	stVal
	PROT.A50PTOC1.Beh	stVal
Inhibit 50-1		
	PROT.A50PTOC1.Mod	stVal
	PROT.A50PTOC1.Beh	stVal
50-1 PhA Pickup		
	PROT.A50PTOC1.Str	general (3-pole)
	PROT.A50PTOC1.Str	phsA (L1)
50-1 PhB Pickup		
	PROT.A50PTOC1.Str	general (3-pole)
	PROT.A50PTOC1.Str	phsB (L2)
50-1 PhC Pickup		
	PROT.A50PTOC1.Str	general (3-pole)
	PROT.A50PTOC1.Str	phsC (L3)
50-1 Operated		
	PROT.A50PTOC1.Op	general (3-pole)
50-2 Enabled		
	PROT.A50PTOC2.Mod	stVal
	PROT.A50PTOC2.Beh	stVal
Inhibit 50-2		
	PROT.A50PTOC2.Mod	stVal
	PROT.A50PTOC2.Beh	stVal

Reyrolle 7SR220	DOI	DA Group
50-2 PhA Pickup		
	PROT.A50PTOC2.Str	general (3-pole)
	PROT.A50PTOC2.Str	phsA (L1)
50-2 PhB Pickup		
	PROT.A50PTOC2.Str	general (3-pole)
	PROT.A50PTOC2.Str	phsB (L2)
50-2 PhC Pickup		
	PROT.A50PTOC2.Str	general (3-pole)
	PROT.A50PTOC2.Str	phsC (L3)
50-2 Operated		
	PROT.A50PTOC2.Op	general (3-pole)
Derived E/F Enabled		
	PROT.A51nPTOC1.Mod	stVal
	PROT.A51nPTOC1.Beh	stVal
	PROT.A51nPTOC2.Mod	stVal
	PROT.A51nPTOC2.Beh	stVal
	PROT.A50nPTOC1.Mod	stVal
	PROT.A50nPTOC1.Beh	stVal
	PROT.A50nPTOC2.Mod	stVal
	PROT.A50nPTOC2.Beh	stVal
51N-1 Enabled		
	PROT.A51nPTOC1.Mod	stVal
	PROT.A51nPTOC1.Beh	stVal
Inhibit 51N-1		
	PROT.A51nPTOC1.Mod	stVal
	PROT.A51nPTOC1.Beh	stVal
51N-1 Pickup		
	PROT.A51nPTOC1.Str	general
51N-1 Operated		
	PROT.A51nPTOC1.Op	general
51N-2 Enabled		
	PROT.A51nPTOC2.Mod	stVal
	PROT.A51nPTOC2.Beh	stVal
Inhibit 51N-2		
	PROT.A51nPTOC2.Mod	stVal
	PROT.A51nPTOC2.Beh	stVal
51N-2 Pickup		
	PROT.A51nPTOC2.Str	general
51N-2 Operated		
	PROT.A51nPTOC2.Op	general
50N-1 Enabled		
	PROT.A50nPTOC1.Mod	stVal



Reyrolle 7SR220	DOI	DA Group
	PROT.A50nPTOC1.Beh	stVal
Inhibit 50N-1		
	PROT.A50nPTOC1.Mod	stVal
	PROT.A50nPTOC1.Beh	stVal
50N-1 Pickup		
	PROT.A50nPTOC1.Str	general
50N-1 Operated		
	PROT.A50nPTOC1.Op	general
50N-2 Enabled		
	PROT.A50nPTOC2.Mod	stVal
	PROT.A50nPTOC2.Beh	stVal
Inhibit 50N-2		
	PROT.A50nPTOC2.Mod	stVal
	PROT.A50nPTOC2.Beh	stVal
50N-2 Pickup		
	PROT.A50nPTOC2.Str	general
50N-2 Operated		
	PROT.A50nPTOC2.Op	general
Measured E/F Enabled		
	PROT.A51gPTOC1.Mod	stVal
	PROT.A51gPTOC1.Beh	stVal
	PROT.A51gPTOC2.Mod	stVal
	PROT.A51gPTOC2.Beh	stVal
	PROT.A50gPTOC1.Mod	stVal
	PROT.A50gPTOC1.Beh	stVal
	PROT.A50gPTOC2.Mod	stVal
	PROT.A50gPTOC2.Beh	stVal
51G-1 Enabled		
	PROT.A51gPTOC1.Mod	stVal
	PROT.A51gPTOC1.Beh	stVal
Inhibit 51G-1		
	PROT.A51gPTOC1.Mod	stVal
	PROT.A51gPTOC1.Beh	stVal
51G-1 Pickup		
	PROT.A51gPTOC1.Str	general
51G-1 Operated		
	PROT.A51gPTOC1.Op	general
51G-2 Enabled		
	PROT.A51gPTOC2.Mod	stVal
	PROT.A51gPTOC2.Beh	stVal
Inhibit 51G-2		
	PROT.A51gPTOC2.Mod	stVal

Reyrolle 7SR220	DOI	DA Group
	PROT.A51gPTOC2.Beh	stVal
51G-2 Pickup		
	PROT.A51gPTOC2.Str	general
51G-2 Operated		
	PROT.A51gPTOC2.Op	general
50G-1 Enabled		
	PROT.A50gPTOC1.Mod	stVal
	PROT.A50gPTOC1.Beh	stVal
Inhibit 50G-1		
	PROT.A50gPTOC1.Mod	stVal
	PROT.A50gPTOC1.Beh	stVal
50G-1 Pickup		
	PROT.A50gPTOC1.Str	general
50G-1 Operated		
	PROT.A50gPTOC1.Op	general
50G-2 Enabled		
	PROT.A50gPTOC2.Mod	stVal
	PROT.A50gPTOC2.Beh	stVal
Inhibit 50G-2		
	PROT.A50gPTOC2.Mod	stVal
	PROT.A50gPTOC2.Beh	stVal
50G-2 Pickup		
	PROT.A50gPTOC2.Str	general
50G-2 Operated		
	PROT.A50gPTOC2.Op	general
Sensitive E/F Enabled		
	PROT.A51SefPTOC1.Mod	stVal
	PROT.A51SefPTOC1.Beh	stVal
	PROT.A51SefPTOC2.Mod	stVal
	PROT.A51SefPTOC2.Beh	stVal
	PROT.A50SefPTOC1.Mod	stVal
	PROT.A50SefPTOC1.Beh	stVal
	PROT.A50SefPTOC2.Mod	stVal
	PROT.A50SefPTOC2.Beh	stVal
51SEF-1 Enabled		
	PROT.A51SefPTOC1.Mod	stVal
	PROT.A51SefPTOC1.Beh	stVal
Inhibit 51SEF-1		
	PROT.A51SefPTOC1.Mod	stVal
	PROT.A51SefPTOC1.Beh	stVal
51SEF-1 Pickup		
	PROT.A51SefPTOC1.Str	general

Reyrolle 7SR220	DOI	DA Group
51SEF-1 Operated		
	PROT.A51SefPTOC1.Op	general
51SEF-2 Enabled		
	PROT.A51SefPTOC2.Mod	stVal
	PROT.A51SefPTOC2.Beh	stVal
Inhibit 51SEF-2		
	PROT.A51SefPTOC2.Mod	stVal
	PROT.A51SefPTOC2.Beh	stVal
51SEF-2 Pickup		
	PROT.A51SefPTOC2.Str	general
51SEF-2 Operated		
	PROT.A51SefPTOC2.Op	general
50SEF-1 Enabled		
	PROT.A50SefPTOC1.Mod	stVal
	PROT.A50SefPTOC1.Beh	stVal
Inhibit 50SEF-1		
	PROT.A50SefPTOC1.Mod	stVal
	PROT.A50SefPTOC1.Beh	stVal
50SEF-1 Pickup		
	PROT.A50SefPTOC1.Str	general
50SEF-1 Operated		
	PROT.A50SefPTOC1.Op	general
50SEF-2 Enabled		
	PROT.A50SefPTOC2.Mod	stVal
	PROT.A50SefPTOC2.Beh	stVal
Inhibit 50SEF-2		
	PROT.A50SefPTOC2.Mod	stVal
	PROT.A50SefPTOC2.Beh	stVal
50SEF-2 Pickup		
	PROT.A50SefPTOC2.Str	general
50SEF-2 Operated		
	PROT.A50SefPTOC2.Op	general
Restricted E/F Enabled		
	PROT.A64hPTOC1.Mod	stVal
	PROT.A64hPTOC1.Beh	stVal
64H Enabled		
	PROT.A64hPTOC1.Mod	stVal
	PROT.A64hPTOC1.Beh	stVal
Inhibit 64H		
	PROT.A64hPTOC1.Mod	stVal
	PROT.A64hPTOC1.Beh	stVal
64H Pickup		

Reyrolle 7SR220	DOI	DA Group
	PROT.A64hPTOC1.Str	general
64H Operated		
	PROT.A64hPTOC1.Op	general
NPS Overcurrent Enabled		
	PROT.A46ItPTOC1.Mod	stVal
	PROT.A46ItPTOC1.Beh	stVal
	PROT.A46DtPTOC1.Mod	stVal
	PROT.A46DtPTOC1.Beh	stVal
46IT Enabled		
	PROT.A46ItPTOC1.Mod	stVal
	PROT.A46ItPTOC1.Beh	stVal
Inhibit 46IT		
	PROT.A46ItPTOC1.Mod	stVal
	PROT.A46ItPTOC1.Beh	stVal
46IT Pickup		
	PROT.A46ItPTOC1.Str	general
46IT Operated		
	PROT.A46ItPTOC1.Op	general
46DT Enabled		
	PROT.A46DtPTOC1.Mod	stVal
	PROT.A46DtPTOC1.Beh	stVal
Inhibit 46DT		
	PROT.A46DtPTOC1.Mod	stVal
	PROT.A46DtPTOC1.Beh	stVal
46DT Pickup		
	PROT.A46DtPTOC1.Str	general
46DT Operated		
	PROT.A46DtPTOC1.Op	general
Under Current Enabled		
	PROT.A37PTUC1.Mod	stVal
	PROT.A37PTUC1.Beh	stVal
	PROT.A37PTUC2.Mod	stVal
	PROT.A37PTUC2.Beh	stVal
	PROT.A37gPTUC1.Mod	stVal
	PROT.A37gPTUC1.Beh	stVal
	PROT.A37gPTUC2.Mod	stVal
	PROT.A37gPTUC2.Beh	stVal
	PROT.A37SefPTUC1.Mod	stVal
	PROT.A37SefPTUC1.Beh	stVal
	PROT.A37SefPTUC2.Mod	stVal
	PROT.A37SefPTUC2.Beh	stVal
37-1 Enabled		

Reyrolle 7SR220	DOI	DA Group
	PROT.A37PTUC1.Mod	stVal
	PROT.A37PTUC1.Beh	stVal
Inhibit 37-1		
	PROT.A37PTUC1.Mod	stVal
	PROT.A37PTUC1.Beh	stVal
37-1 PhA Pickup		
	PROT.A37PTUC1.Str	general (3-pole)
	PROT.A37PTUC1.Str	phsA (L1)
37-1 PhB Pickup		
	PROT.A37PTUC1.Str	general (3-pole)
	PROT.A37PTUC1.Str	phsB (L2)
37-1 PhC Pickup		
	PROT.A37PTUC1.Str	general (3-pole)
	PROT.A37PTUC1.Str	phsC (L3)
37-1 Operated		
	PROT.A37PTUC1.Op	general (3-pole)
37-2 Enabled		
	PROT.A37PTUC2.Mod	stVal
	PROT.A37PTUC2.Beh	stVal
Inhibit 37-2		
	PROT.A37PTUC2.Mod	stVal
	PROT.A37PTUC2.Beh	stVal
37-2 PhA Pickup		
	PROT.A37PTUC2.Str	general (3-pole)
	PROT.A37PTUC2.Str	phsA (L1)
37-2 PhB Pickup		
	PROT.A37PTUC2.Str	general (3-pole)
	PROT.A37PTUC2.Str	phsB (L2)
37-2 PhC Pickup		
	PROT.A37PTUC2.Str	general (3-pole)
	PROT.A37PTUC2.Str	phsC (L3)
37-2 Operated		
	PROT.A37PTUC2.Op	general (3-pole)
37G-1 Enabled		
	PROT.A37gPTUC1.Mod	stVal
	PROT.A37gPTUC1.Beh	stVal
Inhibit 37G-1		
	PROT.A37gPTUC1.Mod	stVal
	PROT.A37gPTUC1.Beh	stVal
37G-1 Pickup		
	PROT.A37gPTUC1.Str	general
37G-1 Operated		

Reyrolle 7SR220	DOI	DA Group
	PROT.A37gPTUC1.Op	general
37G-2 Enabled		
	PROT.A37gPTUC2.Mod	stVal
	PROT.A37gPTUC2.Beh	stVal
Inhibit 37G-2		
	PROT.A37gPTUC2.Mod	stVal
	PROT.A37gPTUC2.Beh	stVal
37G-2 Pickup		
	PROT.A37gPTUC2.Str	general
37G-2 Operated		
	PROT.A37gPTUC2.Op	general
37SEF-1 Enabled		
	PROT.A37SefPTUC1.Mod	stVal
	PROT.A37SefPTUC1.Beh	stVal
Inhibit 37SEF-1		
	PROT.A37SefPTUC1.Mod	stVal
	PROT.A37SefPTUC1.Beh	stVal
37SEF-1 Pickup		
	PROT.A37SefPTUC1.Str	general
37SEF-1 Operated		
	PROT.A37SefPTUC1.Op	general
37SEF-2 Enabled		
	PROT.A37SefPTUC2.Mod	stVal
	PROT.A37SefPTUC2.Beh	stVal
Inhibit 37SEF-2		
	PROT.A37SefPTUC2.Mod	stVal
	PROT.A37SefPTUC2.Beh	stVal
37SEF-2 Pickup		
	PROT.A37SefPTUC2.Str	general
37SEF-2 Operated		
	PROT.A37SefPTUC2.Op	general
49 Thermal Overload Enabled		
	PROT.A49PTTR1.Mod	stVal
	PROT.A49PTTR1.Beh	stVal
Inhibit 49		
	PROT.A49PTTR1.Mod	stVal
	PROT.A49PTTR1.Beh	stVal
49 Pickup		
	PROT.A49PTTR1.Str	general
49 Operated		
	PROT.A49PTTR1.Op	general
49 Alarm		

Reyrolle 7SR220	DOI	DA Group
	PROT.A49PTTR1.AlmThm	general
ProtectionActive		
	PROT.PTRC1.Mod	stVal
	PROT.PTRC1.Beh	stVal
General Pickup		
	PROT.PTRC1.Str	general
Any Overcurrent Operated		
	PROT.PTRC1.Op	general
Trip Contact Operated		
	PROT.PTRC1.Tr	general
Waveform Rec Complete		
	DR.RDRE1.RcdMade	stVal
Fault Number		
	DR.RDRE1.FltNum	stVal
	DR.RDRE1.GriFItNum	stVal

## 1.2 Function - Measurement (MMXU)

Reyrolle 7SR220	DOI	DA Group
la (Ia =)		
	MEAS.MMXU1.A	phsA mag
	MEAS.MMXU1.A	phsA ang
lb (Ib =)		
	MEAS.MMXU1.A	phsB mag
	MEAS.MMXU1.A	phsB ang
lc (Ic =)		
	MEAS.MMXU1.A	phsC mag
	MEAS.MMXU1.A	phsC ang
Measured Earth Current (I <sub>g</sub> =)		
	MEAS.MMXU1.A	neut mag
	MEAS.MMXU1.A	neut ang
Calculated Earth Current (I <sub>n</sub> =)		
	MEAS.MMXU1.A	res mag
	MEAS.MMXU1.A	res ang



### 1.3 Function – GOOSE & Indication

Reyrolle 7SR220	DOI	DA Group
SPi64GGIO1 SPCSO1		
	CTRL.SPi64GGIO1.SPCSO1	ctlVal
SPi64GGIO1 SPCSO2		
	CTRL.SPi64GGIO1.SPCSO2	ctlVal
SPi64GGIO1 SPCSO3		
	CTRL.SPi64GGIO1.SPCSO3	ctlVal
SPi64GGIO1 SPCSO4		
	CTRL.SPi64GGIO1.SPCSO4	ctlVal
SPi64GGIO1 SPCSO5		
	CTRL.SPi64GGIO1.SPCSO5	ctlVal
SPi64GGIO1 SPCSO6		
	CTRL.SPi64GGIO1.SPCSO6	ctlVal
SPi64GGIO1 SPCSO7		
	CTRL.SPi64GGIO1.SPCSO7	ctlVal
SPi64GGIO1 SPCSO8		
	CTRL.SPi64GGIO1.SPCSO8	ctlVal
SPi64GGIO1 SPCSO9		
	CTRL.SPi64GGIO1.SPCSO9	ctlVal
SPi64GGIO1 SPCSO10		
	CTRL.SPi64GGIO1.SPCSO10	ctlVal
SPi64GGIO1 SPCSO11		
	CTRL.SPi64GGIO1.SPCSO11	ctlVal
SPi64GGIO1 SPCSO12		
	CTRL.SPi64GGIO1.SPCSO12	ctlVal
SPi64GGIO1 SPCSO13		
	CTRL.SPi64GGIO1.SPCSO13	ctlVal
SPi64GGIO1 SPCSO14		
	CTRL.SPi64GGIO1.SPCSO14	ctlVal
SPi64GGIO1 SPCSO15		
	CTRL.SPi64GGIO1.SPCSO15	ctlVal
SPi64GGIO1 SPCSO16		
	CTRL.SPi64GGIO1.SPCSO16	ctlVal
SPi64GGIO1 SPCSO17		
	CTRL.SPi64GGIO1.SPCSO17	ctlVal
SPi64GGIO1 SPCSO18		
	CTRL.SPi64GGIO1.SPCSO18	ctlVal
SPi64GGIO1 SPCSO19		
	CTRL.SPi64GGIO1.SPCSO19	ctlVal
SPi64GGIO1 SPCSO20		

	CTRL.SPi64GGIO1.SPCSO20	ctlVal
SPi64GGIO1 SPCSO21		
	CTRL.SPi64GGIO1.SPCSO21	ctlVal
SPi64GGIO1 SPCSO22		
	CTRL.SPi64GGIO1.SPCSO22	ctlVal
SPi64GGIO1 SPCSO23		
	CTRL.SPi64GGIO1.SPCSO23	ctlVal
SPi64GGIO1 SPCSO24		
	CTRL.SPi64GGIO1.SPCSO24	ctlVal
SPi64GGIO1 SPCSO25		
	CTRL.SPi64GGIO1.SPCSO25	ctlVal
SPi64GGIO1 SPCSO26		
	CTRL.SPi64GGIO1.SPCSO26	ctlVal
SPi64GGIO1 SPCSO27		
	CTRL.SPi64GGIO1.SPCSO27	ctlVal
SPi64GGIO1 SPCSO28		
	CTRL.SPi64GGIO1.SPCSO28	ctlVal
SPi64GGIO1 SPCSO29		
	CTRL.SPi64GGIO1.SPCSO29	ctlVal
SPi64GGIO1 SPCSO30		
	CTRL.SPi64GGIO1.SPCSO30	ctlVal
SPi64GGIO1 SPCSO31		
	CTRL.SPi64GGIO1.SPCSO31	ctlVal
SPi64GGIO1 SPCSO32		
	CTRL.SPi64GGIO1.SPCSO32	ctlVal
SPi64GGIO1 SPCSO33		
	CTRL.SPi64GGIO1.SPCSO33	ctlVal
SPi64GGIO1 SPCSO34		
	CTRL.SPi64GGIO1.SPCSO34	ctlVal
SPi64GGIO1 SPCSO35		
	CTRL.SPi64GGIO1.SPCSO35	ctlVal
SPi64GGIO1 SPCSO36		
	CTRL.SPi64GGIO1.SPCSO36	ctlVal
SPi64GGIO1 SPCSO37		
	CTRL.SPi64GGIO1.SPCSO37	ctlVal
SPi64GGIO1 SPCSO38		
	CTRL.SPi64GGIO1.SPCSO38	ctlVal
SPi64GGIO1 SPCSO39		
	CTRL.SPi64GGIO1.SPCSO39	ctlVal
SPi64GGIO1 SPCSO40		
	CTRL.SPi64GGIO1.SPCSO40	ctlVal
SPi64GGIO1 SPCSO41		
	CTRL.SPi64GGIO1.SPCSO41	ctlVal

SPi64GGIO1 SPCSO42		
	CTRL.SPi64GGIO1.SPCSO42	ctlVal
SPi64GGIO1 SPCSO43		
	CTRL.SPi64GGIO1.SPCSO43	ctlVal
SPi64GGIO1 SPCSO44		
	CTRL.SPi64GGIO1.SPCSO44	ctlVal
SPi64GGIO1 SPCSO45		
	CTRL.SPi64GGIO1.SPCSO45	ctlVal
SPi64GGIO1 SPCSO46		
	CTRL.SPi64GGIO1.SPCSO46	ctlVal
SPi64GGIO1 SPCSO47		
	CTRL.SPi64GGIO1.SPCSO47	ctlVal
SPi64GGIO1 SPCSO48		
	CTRL.SPi64GGIO1.SPCSO48	ctlVal
SPi64GGIO1 SPCSO49		
	CTRL.SPi64GGIO1.SPCSO49	ctlVal
SPi64GGIO1 SPCSO50		
	CTRL.SPi64GGIO1.SPCSO50	ctlVal
SPi64GGIO1 SPCSO51		
	CTRL.SPi64GGIO1.SPCSO51	ctlVal
SPi64GGIO1 SPCSO52		
	CTRL.SPi64GGIO1.SPCSO52	ctlVal
SPi64GGIO1 SPCSO53		
	CTRL.SPi64GGIO1.SPCSO53	ctlVal
SPi64GGIO1 SPCSO54		
	CTRL.SPi64GGIO1.SPCSO54	ctlVal
SPi64GGIO1 SPCSO55		
	CTRL.SPi64GGIO1.SPCSO55	ctlVal
SPi64GGIO1 SPCSO56		
	CTRL.SPi64GGIO1.SPCSO56	ctlVal
SPi64GGIO1 SPCSO57		
	CTRL.SPi64GGIO1.SPCSO57	ctlVal
SPi64GGIO1 SPCSO58		
	CTRL.SPi64GGIO1.SPCSO58	ctlVal
SPi64GGIO1 SPCSO59		
	CTRL.SPi64GGIO1.SPCSO59	ctlVal
SPi64GGIO1 SPCSO60		
	CTRL.SPi64GGIO1.SPCSO60	ctlVal
SPi64GGIO1 SPCSO61		
	CTRL.SPi64GGIO1.SPCSO61	ctlVal
SPi64GGIO1 SPCSO62		
	CTRL.SPi64GGIO1.SPCSO62	ctlVal
SPi64GGIO1 SPCSO63		

	CTRL.SPi64GGIO1.SPCSO63	ctVal
SPi64GGIO1 SPCSO64		
	CTRL.SPi64GGIO1.SPCSO64	ctVal
SPo32GGIO1 Ind1		
	CTRL.SPo32GGIO1.Ind1	stVal
SPo32GGIO1 Ind2		
	CTRL.SPo32GGIO1.Ind2	stVal
SPo32GGIO1 Ind3		
	CTRL.SPo32GGIO1.Ind3	stVal
SPo32GGIO1 Ind4		
	CTRL.SPo32GGIO1.Ind4	stVal
SPo32GGIO1 Ind5		
	CTRL.SPo32GGIO1.Ind5	stVal
SPo32GGIO1 Ind6		
	CTRL.SPo32GGIO1.Ind6	stVal
SPo32GGIO1 Ind7		
	CTRL.SPo32GGIO1.Ind7	stVal
SPo32GGIO1 Ind8		
	CTRL.SPo32GGIO1.Ind8	stVal
SPo32GGIO1 Ind9		
	CTRL.SPo32GGIO1.Ind9	stVal
SPo32GGIO1 Ind10		
	CTRL.SPo32GGIO1.Ind10	stVal
SPo32GGIO1 Ind11		
	CTRL.SPo32GGIO1.Ind11	stVal
SPo32GGIO1 Ind12		
	CTRL.SPo32GGIO1.Ind12	stVal
SPo32GGIO1 Ind13		
	CTRL.SPo32GGIO1.Ind13	stVal
SPo32GGIO1 Ind14		
	CTRL.SPo32GGIO1.Ind14	stVal
SPo32GGIO1 Ind15		
	CTRL.SPo32GGIO1.Ind15	stVal
SPo32GGIO1 Ind16		
	CTRL.SPo32GGIO1.Ind16	stVal
SPo32GGIO1 Ind17		
	CTRL.SPo32GGIO1.Ind17	stVal
SPo32GGIO1 Ind18		
	CTRL.SPo32GGIO1.Ind18	stVal
SPo32GGIO1 Ind19		
	CTRL.SPo32GGIO1.Ind19	stVal
SPo32GGIO1 Ind20		
	CTRL.SPo32GGIO1.Ind20	stVal

SPo32GGIO1 Ind21		
	CTRL.SPo32GGIO1.Ind21	stVal
SPo32GGIO1 Ind22		
	CTRL.SPo32GGIO1.Ind22	stVal
SPo32GGIO1 Ind23		
	CTRL.SPo32GGIO1.Ind23	stVal
SPo32GGIO1 Ind24		
	CTRL.SPo32GGIO1.Ind24	stVal
SPo32GGIO1 Ind25		
	CTRL.SPo32GGIO1.Ind25	stVal
SPo32GGIO1 Ind26		
	CTRL.SPo32GGIO1.Ind26	stVal
SPo32GGIO1 Ind27		
	CTRL.SPo32GGIO1.Ind27	stVal
SPo32GGIO1 Ind28		
	CTRL.SPo32GGIO1.Ind28	stVal
SPo32GGIO1 Ind29		
	CTRL.SPo32GGIO1.Ind29	stVal
SPo32GGIO1 Ind30		
	CTRL.SPo32GGIO1.Ind30	stVal
SPo32GGIO1 Ind31		
	CTRL.SPo32GGIO1.Ind31	stVal
SPo32GGIO1 Ind32		
	CTRL.SPo32GGIO1.Ind32	stVal
BI19GGIO1 Ind1		
	CTRL.BI19GGIO1.Ind1	stVal
BI19GGIO1 Ind2		
	CTRL.BI19GGIO1.Ind2	stVal
BI19GGIO1 Ind3		
	CTRL.BI19GGIO1.Ind3	stVal
BI19GGIO1 Ind4		
	CTRL.BI19GGIO1.Ind4	stVal
BI19GGIO1 Ind5		
	CTRL.BI19GGIO1.Ind5	stVal
BI19GGIO1 Ind6		
	CTRL.BI19GGIO1.Ind6	stVal
BI19GGIO1 Ind7		
	CTRL.BI19GGIO1.Ind7	stVal
BI19GGIO1 Ind8		
	CTRL.BI19GGIO1.Ind8	stVal
BI19GGIO1 Ind9		
	CTRL.BI19GGIO1.Ind9	stVal
BI19GGIO1 Ind10		

	CTRL.BI19GGIO1.Ind10	stVal
BI19GGIO1 Ind11		
	CTRL.BI19GGIO1.Ind11	stVal
BI19GGIO1 Ind12		
	CTRL.BI19GGIO1.Ind12	stVal
BI19GGIO1 Ind13		
	CTRL.BI19GGIO1.Ind13	stVal
BI19GGIO1 Ind14		
	CTRL.BI19GGIO1.Ind14	stVal
BI19GGIO1 Ind15		
	CTRL.BI19GGIO1.Ind15	stVal
BI19GGIO1 Ind16		
	CTRL.BI19GGIO1.Ind16	stVal
BI19GGIO1 Ind17		
	CTRL.BI19GGIO1.Ind17	stVal
BI19GGIO1 Ind18		
	CTRL.BI19GGIO1.Ind18	stVal
BI19GGIO1 Ind19		
	CTRL.BI19GGIO1.Ind19	stVal
BO16GGIO1 Ind1		
	CTRL.BO16GGIO1.Ind1	stVal
BO16GGIO1 Ind2		
	CTRL.BO16GGIO1.Ind2	stVal
BO16GGIO1 Ind3		
	CTRL.BO16GGIO1.Ind3	stVal
BO16GGIO1 Ind4		
	CTRL.BO16GGIO1.Ind4	stVal
BO16GGIO1 Ind5		
	CTRL.BO16GGIO1.Ind5	stVal
BO16GGIO1 Ind6		
	CTRL.BO16GGIO1.Ind6	stVal
BO16GGIO1 Ind7		
	CTRL.BO16GGIO1.Ind7	stVal
BO16GGIO1 Ind8		
	CTRL.BO16GGIO1.Ind8	stVal
BO16GGIO1 Ind9		
	CTRL.BO16GGIO1.Ind9	stVal
BO16GGIO1 Ind10		
	CTRL.BO16GGIO1.Ind10	stVal
BO16GGIO1 Ind11		
	CTRL.BO16GGIO1.Ind11	stVal
BO16GGIO1 Ind12		
	CTRL.BO16GGIO1.Ind12	stVal

BO16GGIO1 Ind13		
	CTRL.BO16GGIO1.Ind13	stVal
BO16GGIO1 Ind14		
	CTRL.BO16GGIO1.Ind14	stVal
BO16GGIO1 Ind15		
	CTRL.BO16GGIO1.Ind15	stVal
BO16GGIO1 Ind16		
	CTRL.BO16GGIO1.Ind16	stVal
L16GGIO1 Ind1		
	CTRL.L16GGIO1.Ind1	stVal
L16GGIO1 Ind2		
	CTRL.L16GGIO1.Ind2	stVal
L16GGIO1 Ind3		
	CTRL.L16GGIO1.Ind3	stVal
L16GGIO1 Ind4		
	CTRL.L16GGIO1.Ind4	stVal
L16GGIO1 Ind5		
	CTRL.L16GGIO1.Ind5	stVal
L16GGIO1 Ind6		
	CTRL.L16GGIO1.Ind6	stVal
L16GGIO1 Ind7		
	CTRL.L16GGIO1.Ind7	stVal
L16GGIO1 Ind8		
	CTRL.L16GGIO1.Ind8	stVal
L16GGIO1 Ind9		
	CTRL.L16GGIO1.Ind9	stVal
L16GGIO1 Ind10		
	CTRL.L16GGIO1.Ind10	stVal
L16GGIO1 Ind11		
	CTRL.L16GGIO1.Ind11	stVal
L16GGIO1 Ind12		
	CTRL.L16GGIO1.Ind12	stVal
L16GGIO1 Ind13		
	CTRL.L16GGIO1.Ind13	stVal
L16GGIO1 Ind14		
	CTRL.L16GGIO1.Ind14	stVal
L16GGIO1 Ind15		
	CTRL.L16GGIO1.Ind15	stVal
L16GGIO1 Ind16		
	CTRL.L16GGIO1.Ind16	stVal
V16GGIO1 Ind1		
	CTRL.V16GGIO1.Ind1	stVal
V16GGIO1 Ind2		

	CTRL.V16GGIO1.Ind2	stVal
V16GGIO1 Ind3		
	CTRL.V16GGIO1.Ind3	stVal
V16GGIO1 Ind4		
	CTRL.V16GGIO1.Ind4	stVal
V16GGIO1 Ind5		
	CTRL.V16GGIO1.Ind5	stVal
V16GGIO1 Ind6		
	CTRL.V16GGIO1.Ind6	stVal
V16GGIO1 Ind7		
	CTRL.V16GGIO1.Ind7	stVal
V16GGIO1 Ind8		
	CTRL.V16GGIO1.Ind8	stVal
V16GGIO1 Ind9		
	CTRL.V16GGIO1.Ind9	stVal
V16GGIO1 Ind10		
	CTRL.V16GGIO1.Ind10	stVal
V16GGIO1 Ind11		
	CTRL.V16GGIO1.Ind11	stVal
V16GGIO1 Ind12		
	CTRL.V16GGIO1.Ind12	stVal
V16GGIO1 Ind13		
	CTRL.V16GGIO1.Ind13	stVal
V16GGIO1 Ind14		
	CTRL.V16GGIO1.Ind14	stVal
V16GGIO1 Ind15		
	CTRL.V16GGIO1.Ind15	stVal
V16GGIO1 Ind16		
	CTRL.V16GGIO1.Ind16	stVal
E16GGIO1 Ind1		
	CTRL.E16GGIO1.Ind1	stVal
E16GGIO1 Ind2		
	CTRL.E16GGIO1.Ind2	stVal
E16GGIO1 Ind3		
	CTRL.E16GGIO1.Ind3	stVal
E16GGIO1 Ind4		
	CTRL.E16GGIO1.Ind4	stVal
E16GGIO1 Ind5		
	CTRL.E16GGIO1.Ind5	stVal
E16GGIO1 Ind6		
	CTRL.E16GGIO1.Ind6	stVal
E16GGIO1 Ind7		
	CTRL.E16GGIO1.Ind7	stVal



E16GGIO1 Ind8		
	CTRL.E16GGIO1.Ind8	stVal
E16GGIO1 Ind9		
	CTRL.E16GGIO1.Ind9	stVal
E16GGIO1 Ind10		
	CTRL.E16GGIO1.Ind10	stVal
E16GGIO1 Ind11		
	CTRL.E16GGIO1.Ind11	stVal
E16GGIO1 Ind12		
	CTRL.E16GGIO1.Ind12	stVal
E16GGIO1 Ind13		
	CTRL.E16GGIO1.Ind13	stVal
E16GGIO1 Ind14		
	CTRL.E16GGIO1.Ind14	stVal
E16GGIO1 Ind15		
	CTRL.E16GGIO1.Ind15	stVal
E16GGIO1 Ind16		
	CTRL.E16GGIO1.Ind16	stVal
DPi8GGIO1 DPCSO1 (OFF/OPEN)		
	CTRL.DPi8GGIO1.DPCSO1	ctlVal
DPi8GGIO1 DPCSO1 (ON/CLOSE)		
	CTRL.DPi8GGIO1.DPCSO1	ctlVal
DPi8GGIO1 DPCSO2 (OFF/OPEN)		
	CTRL.DPi8GGIO1.DPCSO2	ctlVal
DPi8GGIO1 DPCSO2 (ON/CLOSE)		
	CTRL.DPi8GGIO1.DPCSO2	ctlVal
DPi8GGIO1 DPCSO3 (OFF/OPEN)		
	CTRL.DPi8GGIO1.DPCSO3	ctlVal
DPi8GGIO1 DPCSO3 (ON/CLOSE)		
	CTRL.DPi8GGIO1.DPCSO3	ctlVal
DPi8GGIO1 DPCSO4 (OFF/OPEN)		
	CTRL.DPi8GGIO1.DPCSO4	ctlVal
DPi8GGIO1 DPCSO4 (ON/CLOSE)		
	CTRL.DPi8GGIO1.DPCSO4	ctlVal
DPi8GGIO1 DPCSO5 (OFF/OPEN)		
	CTRL.DPi8GGIO1.DPCSO5	ctlVal
DPi8GGIO1 DPCSO5 (ON/CLOSE)		
	CTRL.DPi8GGIO1.DPCSO5	ctlVal
DPi8GGIO1 DPCSO6 (OFF/OPEN)		
	CTRL.DPi8GGIO1.DPCSO6	ctlVal
DPi8GGIO1 DPCSO6 (ON/CLOSE)		
	CTRL.DPi8GGIO1.DPCSO6	ctlVal
DPi8GGIO1 DPCSO7 (OFF/OPEN)		

	CTRL.DPi8GGIO1.DPCSO7	ctlVal
DPi8GGIO1 DPCSO7 (ON/CLOSE)		
	CTRL.DPi8GGIO1.DPCSO7	ctlVal
DPi8GGIO1 DPCSO8 (OFF/OPEN)		
	CTRL.DPi8GGIO1.DPCSO8	ctlVal
DPi8GGIO1 DPCSO8 (ON/CLOSE)		
	CTRL.DPi8GGIO1.DPCSO8	ctlVal
DPi8GGIO2 DPCSO1 (OFF/OPEN)		
	CTRL.DPi8GGIO2.DPCSO1	ctlVal
DPi8GGIO2 DPCSO1 (ON/CLOSE)		
	CTRL.DPi8GGIO2.DPCSO1	ctlVal
DPi8GGIO2 DPCSO2 (OFF/OPEN)		
	CTRL.DPi8GGIO2.DPCSO2	ctlVal
DPi8GGIO2 DPCSO2 (ON/CLOSE)		
	CTRL.DPi8GGIO2.DPCSO2	ctlVal
DPi8GGIO2 DPCSO3 (OFF/OPEN)		
	CTRL.DPi8GGIO2.DPCSO3	ctlVal
DPi8GGIO2 DPCSO3 (ON/CLOSE)		
	CTRL.DPi8GGIO2.DPCSO3	ctlVal
DPi8GGIO2 DPCSO4 (OFF/OPEN)		
	CTRL.DPi8GGIO2.DPCSO4	ctlVal
DPi8GGIO2 DPCSO4 (ON/CLOSE)		
	CTRL.DPi8GGIO2.DPCSO4	ctlVal
DPi8GGIO2 DPCSO5 (OFF/OPEN)		
	CTRL.DPi8GGIO2.DPCSO5	ctlVal
DPi8GGIO2 DPCSO5 (ON/CLOSE)		
	CTRL.DPi8GGIO2.DPCSO5	ctlVal
DPi8GGIO2 DPCSO6 (OFF/OPEN)		
	CTRL.DPi8GGIO2.DPCSO6	ctlVal
DPi8GGIO2 DPCSO6 (ON/CLOSE)		
	CTRL.DPi8GGIO2.DPCSO6	ctlVal
DPi8GGIO2 DPCSO7 (OFF/OPEN)		
	CTRL.DPi8GGIO2.DPCSO7	ctlVal
DPi8GGIO2 DPCSO7 (ON/CLOSE)		
	CTRL.DPi8GGIO2.DPCSO7	ctlVal
DPi8GGIO2 DPCSO8 (OFF/OPEN)		
	CTRL.DPi8GGIO2.DPCSO8	ctlVal
DPi8GGIO2 DPCSO8 (ON/CLOSE)		
	CTRL.DPi8GGIO2.DPCSO8	ctlVal
DPo8GGIO1 DPCSO1 (OFF/OPEN)		
	CTRL.DPo8GGIO1.DPCSO1	stVal
DPo8GGIO1 DPCSO1 (ON/CLOSE)		
	CTRL.DPo8GGIO1.DPCSO1	stVal

DPo8GGIO1 DPCSO2 (OFF/OPEN)		
	CTRL.DPo8GGIO1.DPCSO2	stVal
DPo8GGIO1 DPCSO2 (ON/CLOSE)		
	CTRL.DPo8GGIO1.DPCSO2	stVal
DPo8GGIO1 DPCSO3 (OFF/OPEN)		
	CTRL.DPo8GGIO1.DPCSO3	stVal
DPo8GGIO1 DPCSO3 (ON/CLOSE)		
	CTRL.DPo8GGIO1.DPCSO3	stVal
DPo8GGIO1 DPCSO4 (OFF/OPEN)		
	CTRL.DPo8GGIO1.DPCSO4	stVal
DPo8GGIO1 DPCSO4 (ON/CLOSE)		
	CTRL.DPo8GGIO1.DPCSO4	stVal
DPo8GGIO1 DPCSO5 (OFF/OPEN)		
	CTRL.DPo8GGIO1.DPCSO5	stVal
DPo8GGIO1 DPCSO5 (ON/CLOSE)		
	CTRL.DPo8GGIO1.DPCSO5	stVal
DPo8GGIO1 DPCSO6 (OFF/OPEN)		
	CTRL.DPo8GGIO1.DPCSO6	stVal
DPo8GGIO1 DPCSO6 (ON/CLOSE)		
	CTRL.DPo8GGIO1.DPCSO6	stVal
DPo8GGIO1 DPCSO7 (OFF/OPEN)		
	CTRL.DPo8GGIO1.DPCSO7	stVal
DPo8GGIO1 DPCSO7 (ON/CLOSE)		
	CTRL.DPo8GGIO1.DPCSO7	stVal
DPo8GGIO1 DPCSO8 (OFF/OPEN)		
	CTRL.DPo8GGIO1.DPCSO8	stVal
DPo8GGIO1 DPCSO8 (ON/CLOSE)		
	CTRL.DPo8GGIO1.DPCSO8	stVal
DPo8GGIO2 DPCSO1 (OFF/OPEN)		
	CTRL.DPo8GGIO2.DPCSO1	stVal
DPo8GGIO2 DPCSO1 (ON/CLOSE)		
	CTRL.DPo8GGIO2.DPCSO1	stVal
DPo8GGIO2 DPCSO2 (OFF/OPEN)		
	CTRL.DPo8GGIO2.DPCSO2	stVal
DPo8GGIO2 DPCSO2 (ON/CLOSE)		
	CTRL.DPo8GGIO2.DPCSO2	stVal
DPo8GGIO2 DPCSO3 (OFF/OPEN)		
	CTRL.DPo8GGIO2.DPCSO3	stVal
DPo8GGIO2 DPCSO3 (ON/CLOSE)		
	CTRL.DPo8GGIO2.DPCSO3	stVal
DPo8GGIO2 DPCSO4 (OFF/OPEN)		
	CTRL.DPo8GGIO2.DPCSO4	stVal
DPo8GGIO2 DPCSO4 (ON/CLOSE)		

	CTRL.DPo8GGIO2.DPCSO4	stVal
DPo8GGIO2 DPCSO5 (OFF/OPEN)		
	CTRL.DPo8GGIO2.DPCSO5	stVal
DPo8GGIO2 DPCSO5 (ON/CLOSE)		
	CTRL.DPo8GGIO2.DPCSO5	stVal
DPo8GGIO2 DPCSO6 (OFF/OPEN)		
	CTRL.DPo8GGIO2.DPCSO6	stVal
DPo8GGIO2 DPCSO6 (ON/CLOSE)		
	CTRL.DPo8GGIO2.DPCSO6	stVal
DPo8GGIO2 DPCSO7 (OFF/OPEN)		
	CTRL.DPo8GGIO2.DPCSO7	stVal
DPo8GGIO2 DPCSO7 (ON/CLOSE)		
	CTRL.DPo8GGIO2.DPCSO7	stVal
DPo8GGIO2 DPCSO8 (OFF/OPEN)		
	CTRL.DPo8GGIO2.DPCSO8	stVal
DPo8GGIO2 DPCSO8 (ON/CLOSE)		

## 1.4 Function – Control

Reyrolle 7SR220	DOI	DA Group
Q0 Open CB		
	CTRL.Q0CSWI1.Pos	ctIVal
Q0 Close CB		
	CTRL.Q0CSWI1.Pos	ctIVal
Q0 CB Closed		
	CTRL.Q0CSWI1.Pos	stVal
	CTRL.Q0XCBR1.Pos	stVal
Q0 CB Open		
	CTRL.Q0CSWI1.Pos	stVal
	CTRL.Q0XCBR1.Pos	stVal
Block Close CB Q0		
	CTRL.Q0XCBR1.BlkCls	stVal
Not Block Close CB Q0		
	CTRL.Q0CILO1.EnaCls	stVal
SPDOs 1 (OFF/OPEN)		
	CTRL.SPDOsGGIO1.SPCSO	ctIVal
SPDOs 1 (ON/CLOSE)		
	CTRL.SPDOsGGIO1.SPCSO	ctIVal
SPDOs 1 Status (ON/CLOSED)		
	CTRL.SPDOsGGIO1.SPCSO	stVal
SPDOs 2 (OFF/OPEN)		
	CTRL.SPDOsGGIO2.SPCSO	ctIVal
SPDOs 2 (ON/CLOSE)		
	CTRL.SPDOsGGIO2.SPCSO	ctIVal
SPDOs 2 Status (ON/CLOSED)		
	CTRL.SPDOsGGIO2.SPCSO	stVal
SPDOs 3 (OFF/OPEN)		
	CTRL.SPDOsGGIO3.SPCSO	ctIVal
SPDOs 3 (ON/CLOSE)		
	CTRL.SPDOsGGIO3.SPCSO	ctIVal
SPDOs 3 Status (ON/CLOSED)		
	CTRL.SPDOsGGIO3.SPCSO	stVal
SPDOs 4 (OFF/OPEN)		
	CTRL.SPDOsGGIO4.SPCSO	ctIVal
SPDOs 4 (ON/CLOSE)		
	CTRL.SPDOsGGIO4.SPCSO	ctIVal
SPDOs 4 Status (ON/CLOSED)		
	CTRL.SPDOsGGIO4.SPCSO	stVal
SPDOes 1 (OFF/OPEN)		
	CTRL.SPDOesGGIO1.SPCSO	ctIVal

Reyrolle 7SR220	DOI	DA Group
SPDOes 1 (ON/CLOSE)		
	CTRL.SPDOesGGIO1.SPCSO	ctIVal
SPDOes 1 Status (ON/CLOSED)		
	CTRL.SPDOesGGIO1.SPCSO	stVal
SPDOes 2 (OFF/OPEN)		
	CTRL.SPDOesGGIO2.SPCSO	ctIVal
SPDOes 2 (ON/CLOSE)		
	CTRL.SPDOesGGIO2.SPCSO	ctIVal
SPDOes 2 Status (ON/CLOSED)		
	CTRL.SPDOesGGIO2.SPCSO	stVal
SPDOes 3 (OFF/OPEN)		
	CTRL.SPDOesGGIO3.SPCSO	ctIVal
SPDOes 3 (ON/CLOSE)		
	CTRL.SPDOesGGIO3.SPCSO	ctIVal
SPDOes 3 Status (ON/CLOSED)		
	CTRL.SPDOesGGIO3.SPCSO	stVal
SPDOes 4 (OFF/OPEN)		
	CTRL.SPDOesGGIO4.SPCSO	ctIVal
SPDOes 4 (ON/CLOSE)		
	CTRL.SPDOesGGIO4.SPCSO	ctIVal
SPDOes 4 Status (ON/CLOSED)		
	CTRL.SPDOesGGIO4.SPCSO	stVal
DPDOns 1 (OFF/OPEN)		
	CTRL.DPDOnsGGIO1.DPCSO	ctIVal
DPDOns 1 (ON/CLOSE)		
	CTRL.DPDOnsGGIO1.DPCSO	ctIVal
DPDOns 1 Status (OFF/OPEN)		
	CTRL.DPDOnsGGIO1.DPCSO	stVal
DPDOns 1 Status (ON/CLOSED)		
	CTRL.DPDOnsGGIO1.DPCSO	stVal
DPDOns 2 (OFF/OPEN)		
	CTRL.DPDOnsGGIO2.DPCSO	ctIVal
DPDOns 2 (ON/CLOSE)		
	CTRL.DPDOnsGGIO2.DPCSO	ctIVal
DPDOns 2 Status (OFF/OPEN)		
	CTRL.DPDOnsGGIO2.DPCSO	stVal
DPDOns 2 Status (ON/CLOSED)		
	CTRL.DPDOnsGGIO2.DPCSO	stVal
DPDOns 3 (OFF/OPEN)		
	CTRL.DPDOnsGGIO3.DPCSO	ctIVal
DPDOns 3 (ON/CLOSE)		
	CTRL.DPDOnsGGIO3.DPCSO	ctIVal

Reyrolle 7SR220	DOI	DA Group
DPDOs 3 Status (OFF/OPEN)		
	CTRL.DPDOsGGIO3.DPCSO	stVal
DPDOs 3 Status (ON/CLOSED)		
	CTRL.DPDOsGGIO3.DPCSO	stVal
DPDOs 4 (OFF/OPEN)		
	CTRL.DPDOsGGIO4.DPCSO	ctIVal
DPDOs 4 (ON/CLOSE)		
	CTRL.DPDOsGGIO4.DPCSO	ctIVal
DPDOs 4 Status (OFF/OPEN)		
	CTRL.DPDOsGGIO4.DPCSO	stVal
DPDOs 4 Status (ON/CLOSED)		
	CTRL.DPDOsGGIO4.DPCSO	stVal
DPDOes 1 (OFF/OPEN)		
	CTRL.DPDOesGGIO1.DPCSO	ctIVal
DPDOes 1 (ON/CLOSE)		
	CTRL.DPDOesGGIO1.DPCSO	ctIVal
DPDOes 1 Status (OFF/OPEN)		
	CTRL.DPDOesGGIO1.DPCSO	stVal
DPDOes 1 Status (ON/CLOSED)		
	CTRL.DPDOesGGIO1.DPCSO	stVal
DPDOes 2 (OFF/OPEN)		
	CTRL.DPDOesGGIO2.DPCSO	ctIVal
DPDOes 2 (ON/CLOSE)		
	CTRL.DPDOesGGIO2.DPCSO	ctIVal
DPDOes 2 Status (OFF/OPEN)		
	CTRL.DPDOesGGIO2.DPCSO	stVal
DPDOes 2 Status (ON/CLOSED)		
	CTRL.DPDOesGGIO2.DPCSO	stVal
DPDOes 3 (OFF/OPEN)		
	CTRL.DPDOesGGIO3.DPCSO	ctIVal
DPDOes 3 (ON/CLOSE)		
	CTRL.DPDOesGGIO3.DPCSO	ctIVal
DPDOes 3 Status (OFF/OPEN)		
	CTRL.DPDOesGGIO3.DPCSO	stVal
DPDOes 3 Status (ON/CLOSED)		
	CTRL.DPDOesGGIO3.DPCSO	stVal
DPDOes 4 (OFF/OPEN)		
	CTRL.DPDOesGGIO4.DPCSO	ctIVal
DPDOes 4 (ON/CLOSE)		
	CTRL.DPDOesGGIO4.DPCSO	ctIVal
DPDOes 4 Status (OFF/OPEN)		
	CTRL.DPDOesGGIO4.DPCSO	stVal

Reyrolle 7SR220	DOI	DA Group
DPDOes 4 Status (ON/CLOSED)		
	CTRL.DPDOesGGIO4.DPCSO	stVal
Always '0'		
	CTRL.Q0XCBR1.BlkOpn	stVal
	PROT.LLNO PROT.SGCB	EditSG
	PROT.LLNO PROT.SGCB	CnfEdit
Always '1'		
	CTRL.Q0CILO1.EnaOpn	stVal



## 2. IEC61850 - REYROLLE 7SR210

### 2.1 L Device – PROT (Protection)

LLN0 PROT		
DOI	DA Group	Reyrolle 7SR220
Health		
	stVal	ProtectionHealthy
SGCB		
	NumOfSG	Num 61850 Controllable Setting Groups
	ActSG	Active Setting Group
	EditSG	Always '0'
	CnfEdit	Always '0'

LPHD1 PROT		
DOI	DA Group	Reyrolle 7SR220
PhyHealth		
	stVal	ProtectionHealthy
PhyNam		
	model	MLFB Number
	serNum	Serial Number
	swRev	Software Revision
	vendor	Vendor Name

PTRC1		
DOI	DA Group	Reyrolle 7SR220
Health		
	stVal	ProtectionHealthy
Mod		
	stVal	ProtectionActive
Beh		
	stVal	ProtectionActive
Str		
	general	General Pickup
Op		
	general	Any Overcurrent Operated
Tr		
	general	Trip Contact Operated

A51PTOC1		
DOI	DA Group	Reyrolle 7SR220
Health		
	stVal	ProtectionHealthy
Mod		
	stVal	Phase Overcurrent Enabled 51-1 Enabled Inhibit 51-1
Beh		
	stVal	Phase Overcurrent Enabled 51-1 Enabled Inhibit 51-1
Str		
	general (3-pole)  phsA (L1) phsB (L2) phsC (L3)	51-1 PhA Pickup 51-1 PhB Pickup 51-1 PhC Pickup 51-1 PhA Pickup 51-1 PhB Pickup 51-1 PhC Pickup
Op		
	general (3-pole)	51-1 Operated

A51PTOC2		
DOI	DA Group	Reyrolle 7SR220
Health		
	stVal	ProtectionHealthy
Mod		
	stVal	Phase Overcurrent Enabled 51-2Enabled Inhibit 51-2
Beh		
	stVal	Phase Overcurrent Enabled 51-2Enabled Inhibit 51-2
Str		
	general (3-pole)  phsA (L1) phsB (L2) phsC (L3)	51-2 PhA Pickup 51-2 PhB Pickup 51-2 PhC Pickup 51-2 PhA Pickup 51-2 PhB Pickup 51-2 PhC Pickup
Op		
	general (3-pole)	51-2 Operated

A50PTOC1		
DOI	DA Group	Reyrolle 7SR220
Health		
	stVal	ProtectionHealthy
Mod		
	stVal	Phase Overcurrent Enabled 50-1 Enabled Inhibit 50-1
Beh		
	stVal	Phase Overcurrent Enabled 50-1 Enabled Inhibit 50-1
Str		
	general (3-pole)  phsA (L1) phsB (L2) phsC (L3)	50-1 PhA Pickup 50-1 PhB Pickup 50-1 PhC Pickup 50-1 PhA Pickup 50-1 PhB Pickup 50-1 PhC Pickup
Op		
	general (3-pole)	50-1 Operated

A50PTOC2		
DOI	DA Group	Reyrolle 7SR220
Health		
	stVal	ProtectionHealthy
Mod		
	stVal	Phase Overcurrent Enabled 50-2 Enabled Inhibit 50-2
Beh		
	stVal	Phase Overcurrent Enabled 50-2 Enabled Inhibit 50-2
Str		
	general (3-pole)  phsA (L1) phsB (L2) phsC (L3)	50-2 PhA Pickup 50-2 PhB Pickup 50-2 PhC Pickup 50-2 PhA Pickup 50-2 PhB Pickup 50-2 PhC Pickup
Op		
	general (3-pole)	50-2 Operated

A51nPTOC1		
DOI	DA Group	Reyrolle 7SR220
Health		
	stVal	ProtectionHealthy
Mod		
	stVal	Derived E/F Enabled 51N-1 Enabled Inhibit 51N-1
Beh		
	stVal	Derived E/F Enabled 51N-1 Enabled Inhibit 51N-1
Str		
	general	51N-1 Pickup
Op		
	general	51N-1 Operated

A51nPTOC2		
DOI	DA Group	Reyrolle 7SR220
Health		
	stVal	ProtectionHealthy
Mod		
	stVal	Derived E/F Enabled 51N-2 Enabled Inhibit 51N-2
Beh		
	stVal	Derived E/F Enabled 51N-2 Enabled Inhibit 51N-2
Str		
	general	51N-2 Pickup
Op		
	general	51N-2 Operated

A50nPTOC1		
DOI	DA Group	Reyrolle 7SR220
Health		
	stVal	ProtectionHealthy
Mod		
	stVal	Derived E/F Enabled 50N-1 Enabled Inhibit 50N-1
Beh		

	stVal	Derived E/F Enabled 50N-1 Enabled Inhibit 50N-1
Str		
	general	50N-1 Pickup
Op		
	general	50N-1 Operated

A50nPTOC2		
DOI	DA Group	Reyrolle 7SR220
Health		
	stVal	ProtectionHealthy
Mod		
	stVal	Derived E/F Enabled 50N-2 Enabled Inhibit 50N-2
Beh		
	stVal	Derived E/F Enabled 50N-2 Enabled Inhibit 50N-2
Str		
	general	50N-2 Pickup
Op		
	general	50N-2 Operated

A51gPTOC1		
DOI	DA Group	Reyrolle 7SR220
Health		
	stVal	ProtectionHealthy
Mod		
	stVal	Measured E/F Enabled 51G-1 Enabled Inhibit 51G-1
Beh		
	stVal	Measured E/F Enabled 51G-1 Enabled Inhibit 51G-1
Str		
	general	51G-1 Pickup
Op		
	general	51G-1 Operated

A51gPTOC2		
DOI	DA Group	Reyrolle 7SR220
Health		
	stVal	ProtectionHealthy
Mod		
	stVal	Measured E/F Enabled 51G-2 Enabled Inhibit 51G-2
Beh		
	stVal	Measured E/F Enabled 51G-2 Enabled Inhibit 51G-2
Str		
	general	51G-2 Pickup
Op		
	general	51G-2 Operated

A50gPTOC1		
DOI	DA Group	Reyrolle 7SR220
Health		
	stVal	ProtectionHealthy
Mod		
	stVal	Measured E/F Enabled 50G-1 Enabled Inhibit 50G-1
Beh		
	stVal	Measured E/F Enabled 50G-1 Enabled Inhibit 50G-1
Str		
	general	50G-1 Pickup
Op		
	general	50G-1 Operated

A50gPTOC2		
DOI	DA Group	Reyrolle 7SR220
Health		
	stVal	ProtectionHealthy
Mod		
	stVal	Measured E/F Enabled 50G-2 Enabled Inhibit 50G-2
Beh		

	stVal	Measured E/F Enabled 50G-2 Enabled Inhibit 50G-2
Str		
	general	50G-2 Pickup
Op		
	general	50G-2 Operated

A51SefPTOC1		
DOI	DA Group	Reyrolle 7SR220
Health		
	stVal	ProtectionHealthy
Mod		
	stVal	Sensitive E/F Enabled 51SEF-1 Enabled Inhibit 51SEF-1
Beh		
	stVal	Sensitive E/F Enabled 51SEF-1 Enabled Inhibit 51SEF-1
Str		
	general	51SEF-1 Pickup
Op		
	general	51SEF-1 Operated

A51SefPTOC2		
DOI	DA Group	Reyrolle 7SR220
Health		
	stVal	ProtectionHealthy
Mod		
	stVal	Sensitive E/F Enabled 51SEF-2 Enabled Inhibit 51SEF-2
Beh		
	stVal	Sensitive E/F Enabled 51SEF-2 Enabled Inhibit 51SEF-2
Str		
	general	51SEF-2 Pickup
Op		
	general	51SEF-2 Operated

A50SefPTOC1		
DOI	DA Group	Reyrolle 7SR220
Health		
	stVal	ProtectionHealthy
Mod		
	stVal	Sensitive E/F Enabled 50SEF-1 Enabled Inhibit 50SEF-1
Beh		
	stVal	Sensitive E/F Enabled 50SEF-1 Enabled Inhibit 50SEF-1
Str		
	general	50SEF-1 Pickup
Op		
	general	50SEF-1 Operated

A50SefPTOC2		
DOI	DA Group	Reyrolle 7SR220
Health		
	stVal	ProtectionHealthy
Mod		
	stVal	Sensitive E/F Enabled 50SEF-2 Enabled Inhibit 50SEF-2
Beh		
	stVal	Sensitive E/F Enabled 50SEF-2 Enabled Inhibit 50SEF-2
Str		
	general	50SEF-2 Pickup
Op		
	general	50SEF-2 Operated

A64hPTOC1		
DOI	DA Group	Reyrolle 7SR220
Health		
	stVal	ProtectionHealthy
Mod		
	stVal	Restricted E/F Enabled 64H Enabled Inhibit 64H
Beh		



	stVal	Restricted E/F Enabled 64H Enabled Inhibit 64H
Str		
	general	64H Pickup
Op		
	general	64H Operated

A46ItPTOC1		
DOI	DA Group	Reyrolle 7SR220
Health		
	stVal	ProtectionHealthy
Mod		
	stVal	NPS Overcurrent Enabled 46IT Enabled Inhibit 46IT
Beh		
	stVal	NPS Overcurrent Enabled 46IT Enabled Inhibit 46IT
Str		
	general	46IT Pickup
Op		
	general	46IT Operated

A46DtPTOC1		
DOI	DA Group	Reyrolle 7SR220
Health		
	stVal	ProtectionHealthy
Mod		
	stVal	NPS Overcurrent Enabled 46DT Enabled Inhibit 46DT
Beh		
	stVal	NPS Overcurrent Enabled 46DT Enabled Inhibit 46DT
Str		
	general	46DT Pickup
Op		
	general	46DT Operated

A37PTUC1		
DOI	DA Group	Reyrolle 7SR220
Health		
	stVal	ProtectionHealthy
Mod		
	stVal	Under Current Enabled 37-1 Enabled Inhibit 37-1
Beh		
	stVal	Under Current Enabled 37-1 Enabled Inhibit 37-1
Str		
	general (3-pole)  phsA (L1) phsB (L2) phsC (L3)	37-1 PhA Pickup 37-1 PhB Pickup 37-1 PhC Pickup 37-1 PhA Pickup 37-1 PhB Pickup 37-1 PhC Pickup
Op		
	general (3-pole)	37-1 Operated

A37PTUC2		
DOI	DA Group	Reyrolle 7SR220
Health		
	stVal	ProtectionHealthy
Mod		
	stVal	Under Current Enabled 37-2 Enabled Inhibit 37-2
Beh		
	stVal	Under Current Enabled 37-2 Enabled Inhibit 37-2
Str		
	general (3-pole)  phsA (L1) phsB (L2) phsC (L3)	37-2 PhA Pickup 37-2 PhB Pickup 37-2 PhC Pickup 37-2 PhA Pickup 37-2 PhB Pickup 37-2 PhC Pickup
Op		
	general (3-pole)	37-2 Operated

A37gPTUC1		
DOI	DA Group	Reyrolle 7SR220
Health		
	stVal	ProtectionHealthy
Mod		
	stVal	Under Current Enabled 37G-1 Enabled Inhibit 37G-1
Beh		
	stVal	Under Current Enabled 37G-1 Enabled Inhibit 37G-1
Str		
	general	37G-1 Pickup
Op		
	general	37G-1 Operated

A37gPTUC2		
DOI	DA Group	Reyrolle 7SR220
Health		
	stVal	ProtectionHealthy
Mod		
	stVal	Under Current Enabled 37G-2 Enabled Inhibit 37G-2
Beh		
	stVal	Under Current Enabled 37G-2 Enabled Inhibit 37G-2
Str		
	general	37G-2 Pickup
Op		
	general	37G-2 Operated

A37SefPTUC1		
DOI	DA Group	Reyrolle 7SR220
Health		
	stVal	ProtectionHealthy
Mod		
	stVal	Under Current Enabled 37SEF-1 Enabled Inhibit 37SEF-1

Beh		
	stVal	Under Current Enabled 37SEF-1 Enabled Inhibit 37SEF-1
Str		
	general	37SEF-1 Pickup
Op		
	general	37SEF-1 Operated

A37SefPTUC2		
DOI	DA Group	Reyrolle 7SR220
Health		
	stVal	ProtectionHealthy
Mod		
	stVal	Under Current Enabled 37SEF-2 Enabled Inhibit 37SEF-2
Beh		
	stVal	Under Current Enabled 37SEF-2 Enabled Inhibit 37SEF-2
Str		
	general	37SEF-2 Pickup
Op		
	general	37SEF-2 Operated

A49PTTR1		
DOI	DA Group	Reyrolle 7SR220
Health		
	stVal	ProtectionHealthy
Mod		
	stVal	49 Thermal Overload Enabled Inhibit 49
Beh		
	stVal	49 Thermal Overload Enabled Inhibit 49
Str		
	general	49 Pickup
Op		
	general	49 Operated
AlmThm		
	general	49 Alarm

## 2.2 L Device – MEAS (Measurement)

LLNO MEAS		
DOI	DA Group	Reyrolle 7SR220
Health		
	stVal	ProtectionHealthy

LPHD1 MEAS		
DOI	DA Group	Reyrolle 7SR220
PhyHealth		
	stVal	ProtectionHealthy
PhyNam		
	model	MLFB Number
	serNum	Serial Number
	swRev	Software Revision
	vendor	Vendor Name

MMXU1		
DOI	DA Group	Reyrolle 7SR220
Health		
	stVal	ProtectionHealthy
A		
	phsA mag	Ia (Ia =)
	phsA ang	Ia (Ia =)
	phsB mag	Ib (Ib =)
	phsB ang	Ib (Ib =)
	phsC mag	Ic (Ic =)
	phsC ang	Ic (Ic =)
	neut mag	Measured Earth Current (I <sub>g</sub> =)
	neut ang	Measured Earth Current (I <sub>g</sub> =)
	res mag	Calculated Earth Current (I <sub>n</sub> =)
	res ang	Calculated Earth Current (I <sub>n</sub> =)

## 2.3 L Device – DR (Disturb Rec)

LLNO CTRL		
DOI	DA Group	Reyrolle 7SR220
Health		
	stVal	ProtectionHealthy

LPHD1 CTRL		
DOI	DA Group	Reyrolle 7SR220
PhyHealth		
	stVal	ProtectionHealthy
PhyNam		
	model	MLFB Number
	serNum	Serial Number
	swRev	Software Revision
	vendor	Vendor Name

Q0CSWI1		
DOI	DA Group	Reyrolle 7SR220
Health		
	stVal	ProtectionHealthy
Mod		
	stVal	ProtectionHealthy
Beh		
	stVal	ProtectionHealthy
Loc		
	stVal	NOT Relay Mode Remote
Pos		
	ctIVal	Q0 Open CB
		Q0 Close CB
	stVal	Q0 CB Closed
		Q0 CB Open

Q0XCBR1		
DOI	DA Group	Reyrolle 7SR220
Health		
	stVal	ProtectionHealthy
Mod		
	stVal	ProtectionHealthy
Beh		
	stVal	ProtectionHealthy

Loc		
	stVal	NOT Relay Mode Remote
Pos		
	stVal	Q0 CB Closed Q0 CB Open
BlkCls		
	stVal	Block Close CB Q0
BlkOpn		
	stVal	Always '0'

Q0CILO1		
DOI	DA Group	Reyrolle 7SR220
Health		
	stVal	ProtectionHealthy
Mod		
	stVal	ProtectionHealthy
Beh		
	stVal	ProtectionHealthy
EnaCls		
	stVal	Not Block Close CB Q0
EnaOpn		
	stVal	Always '1'

BI19GGIO1		
DOI	DA Group	Reyrolle 7SR220
Health		
	stVal	ProtectionHealthy
Ind1		
	stVal	BI19GGIO1 Ind1
Ind2		
	stVal	BI19GGIO1 Ind2
Ind3		
	stVal	BI19GGIO1 Ind3
Ind4		
	stVal	BI19GGIO1 Ind4
Ind5		
	stVal	BI19GGIO1 Ind5
Ind6		
	stVal	BI19GGIO1 Ind6
Ind7		
	stVal	BI19GGIO1 Ind7
Ind8		

BI19GGIO1		
DOI	DA Group	Reyrolle 7SR220
	stVal	BI19GGIO1 Ind8
Ind9		
	stVal	BI19GGIO1 Ind9
Ind10		
	stVal	BI19GGIO1 Ind10
Ind11		
	stVal	BI19GGIO1 Ind11
Ind12		
	stVal	BI19GGIO1 Ind12
Ind13		
	stVal	BI19GGIO1 Ind13
Ind14		
	stVal	BI19GGIO1 Ind14
Ind15		
	stVal	BI19GGIO1 Ind15
Ind16		
	stVal	BI19GGIO1 Ind16
Ind17		
	stVal	BI19GGIO1 Ind17
Ind18		
	stVal	BI19GGIO1 Ind18
Ind19		
	stVal	BI19GGIO1 Ind19

BO16GGIO1		
DOI	DA Group	Reyrolle 7SR220
Health		
	stVal	ProtectionHealthy
Ind1		
	stVal	BO16GGIO1 Ind1
Ind2		
	stVal	BO16GGIO1 Ind2
Ind3		
	stVal	BO16GGIO1 Ind3
Ind4		
	stVal	BO16GGIO1 Ind4
Ind5		
	stVal	BO16GGIO1 Ind5
Ind6		
	stVal	BO16GGIO1 Ind6
Ind7		



	stVal	BO16GGIO1 Ind7
Ind8		
	stVal	BO16GGIO1 Ind8
Ind9		
	stVal	BO16GGIO1 Ind9
Ind10		
	stVal	BO16GGIO1 Ind10
Ind11		
	stVal	BO16GGIO1 Ind11
Ind12		
	stVal	BO16GGIO1 Ind12
Ind13		
	stVal	BO16GGIO1 Ind13
Ind14		
	stVal	BO16GGIO1 Ind14
Ind15		
	stVal	BO16GGIO1 Ind15
Ind16		
	stVal	BO16GGIO1 Ind16

L16GGIO1		
DOI	DA Group	Reyrolle 7SR220
Health		
	stVal	ProtectionHealthy
Ind1		
	stVal	L16GGIO1 Ind1
Ind2		
	stVal	L16GGIO1 Ind2
Ind3		
	stVal	L16GGIO1 Ind3
Ind4		
	stVal	L16GGIO1 Ind4
Ind5		
	stVal	L16GGIO1 Ind5
Ind6		
	stVal	L16GGIO1 Ind6
Ind7		
	stVal	L16GGIO1 Ind7
Ind8		
	stVal	L16GGIO1 Ind8
Ind9		
	stVal	L16GGIO1 Ind9
Ind10		

	stVal	L16GGIO1 Ind10
Ind11		
	stVal	L16GGIO1 Ind11
Ind12		
	stVal	L16GGIO1 Ind12
Ind13		
	stVal	L16GGIO1 Ind13
Ind14		
	stVal	L16GGIO1 Ind14
Ind15		
	stVal	L16GGIO1 Ind15
Ind16		
	stVal	L16GGIO1 Ind16

E16GGIO1		
DOI	DA Group	Reyrolle 7SR220
Health		
	stVal	ProtectionHealthy
Ind1		
	stVal	E16GGIO1 Ind1
Ind2		
	stVal	E16GGIO1 Ind2
Ind3		
	stVal	E16GGIO1 Ind3
Ind4		
	stVal	E16GGIO1 Ind4
Ind5		
	stVal	E16GGIO1 Ind5
Ind6		
	stVal	E16GGIO1 Ind6
Ind7		
	stVal	E16GGIO1 Ind7
Ind8		
	stVal	E16GGIO1 Ind8
Ind9		
	stVal	E16GGIO1 Ind9
Ind10		
	stVal	E16GGIO1 Ind10
Ind11		
	stVal	E16GGIO1 Ind11
Ind12		
	stVal	E16GGIO1 Ind12
Ind13		

	stVal	E16GGIO1 Ind13
Ind14		
	stVal	E16GGIO1 Ind14
Ind15		
	stVal	E16GGIO1 Ind15
Ind16		
	stVal	E16GGIO1 Ind16

V16GGIO1		
DOI	DA Group	Reyrolle 7SR220
Health		
	stVal	ProtectionHealthy
Ind1		
	stVal	V16GGIO1 Ind1
Ind2		
	stVal	V16GGIO1 Ind2
Ind3		
	stVal	V16GGIO1 Ind3
Ind4		
	stVal	V16GGIO1 Ind4
Ind5		
	stVal	V16GGIO1 Ind5
Ind6		
	stVal	V16GGIO1 Ind6
Ind7		
	stVal	V16GGIO1 Ind7
Ind8		
	stVal	V16GGIO1 Ind8
Ind9		
	stVal	V16GGIO1 Ind9
Ind10		
	stVal	V16GGIO1 Ind10
Ind11		
	stVal	V16GGIO1 Ind11
Ind12		
	stVal	V16GGIO1 Ind12
Ind13		
	stVal	V16GGIO1 Ind13
Ind14		
	stVal	V16GGIO1 Ind14
Ind15		
	stVal	V16GGIO1 Ind15

Ind16		
	stVal	V16GGIO1 Ind16

SPi64GGIO1		
DOI	DA Group	Reyrolle 7SR220
Health		
	stVal	ProtectionHealthy
SPCSO1		
	ctIVal	SPi64GGIO1 SPCSO1
SPCSO2		
	ctIVal	SPi64GGIO1 SPCSO2
SPCSO3		
	ctIVal	SPi64GGIO1 SPCSO3
SPCSO4		
	ctIVal	SPi64GGIO1 SPCSO4
SPCSO5		
	ctIVal	SPi64GGIO1 SPCSO5
SPCSO6		
	ctIVal	SPi64GGIO1 SPCSO6
SPCSO7		
	ctIVal	SPi64GGIO1 SPCSO7
SPCSO8		
	ctIVal	SPi64GGIO1 SPCSO8
SPCSO9		
	ctIVal	SPi64GGIO1 SPCSO9
SPCSO10		
	ctIVal	SPi64GGIO1 SPCSO10
SPCSO11		
	ctIVal	SPi64GGIO1 SPCSO11
SPCSO12		
	ctIVal	SPi64GGIO1 SPCSO12
SPCSO13		
	ctIVal	SPi64GGIO1 SPCSO13
SPCSO14		
	ctIVal	SPi64GGIO1 SPCSO14
SPCSO15		
	ctIVal	SPi64GGIO1 SPCSO15
SPCSO16		
	ctIVal	SPi64GGIO1 SPCSO16
SPCSO17		
	ctIVal	SPi64GGIO1 SPCSO17
SPCSO18		
	ctIVal	SPi64GGIO1 SPCSO18

SPi64GGIO1		
DOI	DA Group	Reyrolle 7SR220
SPCSO19		
	ctIVal	SPi64GGIO1 SPCSO19
SPCSO20		
	ctIVal	SPi64GGIO1 SPCSO20
SPCSO21		
	ctIVal	SPi64GGIO1 SPCSO21
SPCSO22		
	ctIVal	SPi64GGIO1 SPCSO22
SPCSO23		
	ctIVal	SPi64GGIO1 SPCSO23
SPCSO24		
	ctIVal	SPi64GGIO1 SPCSO24
SPCSO25		
	ctIVal	SPi64GGIO1 SPCSO25
SPCSO26		
	ctIVal	SPi64GGIO1 SPCSO26
SPCSO27		
	ctIVal	SPi64GGIO1 SPCSO27
SPCSO28		
	ctIVal	SPi64GGIO1 SPCSO28
SPCSO29		
	ctIVal	SPi64GGIO1 SPCSO29
SPCSO30		
	ctIVal	SPi64GGIO1 SPCSO30
SPCSO31		
	ctIVal	SPi64GGIO1 SPCSO31
SPCSO32		
	ctIVal	SPi64GGIO1 SPCSO32
SPCSO33		
	ctIVal	SPi64GGIO1 SPCSO33
SPCSO34		
	ctIVal	SPi64GGIO1 SPCSO34
SPCSO35		
	ctIVal	SPi64GGIO1 SPCSO35
SPCSO36		
	ctIVal	SPi64GGIO1 SPCSO36
SPCSO37		
	ctIVal	SPi64GGIO1 SPCSO37
SPCSO38		
	ctIVal	SPi64GGIO1 SPCSO38
SPCSO39		

SPi64GGIO1		
DOI	DA Group	Reyrolle 7SR220
	ctIVal	SPi64GGIO1 SPCSO39
SPCSO40		
	ctIVal	SPi64GGIO1 SPCSO40
SPCSO41		
	ctIVal	SPi64GGIO1 SPCSO41
SPCSO42		
	ctIVal	SPi64GGIO1 SPCSO42
SPCSO43		
	ctIVal	SPi64GGIO1 SPCSO43
SPCSO44		
	ctIVal	SPi64GGIO1 SPCSO44
SPCSO45		
	ctIVal	SPi64GGIO1 SPCSO45
SPCSO46		
	ctIVal	SPi64GGIO1 SPCSO46
SPCSO47		
	ctIVal	SPi64GGIO1 SPCSO47
SPCSO48		
	ctIVal	SPi64GGIO1 SPCSO48
SPCSO49		
	ctIVal	SPi64GGIO1 SPCSO49
SPCSO50		
	ctIVal	SPi64GGIO1 SPCSO50
SPCSO51		
	ctIVal	SPi64GGIO1 SPCSO51
SPCSO52		
	ctIVal	SPi64GGIO1 SPCSO52
SPCSO53		
	ctIVal	SPi64GGIO1 SPCSO53
SPCSO54		
	ctIVal	SPi64GGIO1 SPCSO54
SPCSO55		
	ctIVal	SPi64GGIO1 SPCSO55
SPCSO56		
	ctIVal	SPi64GGIO1 SPCSO56
SPCSO57		
	ctIVal	SPi64GGIO1 SPCSO57
SPCSO58		
	ctIVal	SPi64GGIO1 SPCSO58
SPCSO59		
	ctIVal	SPi64GGIO1 SPCSO59

SPi64GGIO1		
DOI	DA Group	Reyrolle 7SR220
SPCSO60		
	ctIVal	SPi64GGIO1 SPCSO60
SPCSO61		
	ctIVal	SPi64GGIO1 SPCSO61
SPCSO62		
	ctIVal	SPi64GGIO1 SPCSO62
SPCSO63		
	ctIVal	SPi64GGIO1 SPCSO63
SPCSO64		
	ctIVal	SPi64GGIO1 SPCSO64

SPo32GGIO1		
DOI	DA Group	Reyrolle 7SR220
Health		
	stVal	ProtectionHealthy
Ind1		
	stVal	SPo32GGIO1 Ind1
Ind2		
	stVal	SPo32GGIO1 Ind2
Ind3		
	stVal	SPo32GGIO1 Ind3
Ind4		
	stVal	SPo32GGIO1 Ind4
Ind5		
	stVal	SPo32GGIO1 Ind5
Ind6		
	stVal	SPo32GGIO1 Ind6
Ind7		
	stVal	SPo32GGIO1 Ind7
Ind8		
	stVal	SPo32GGIO1 Ind8
Ind9		
	stVal	SPo32GGIO1 Ind9
Ind10		
	stVal	SPo32GGIO1 Ind10
Ind11		
	stVal	SPo32GGIO1 Ind11
Ind12		
	stVal	SPo32GGIO1 Ind12
Ind13		
	stVal	SPo32GGIO1 Ind13

SPo32GGIO1		
DOI	DA Group	Reyrolle 7SR220
Ind14		
	stVal	SPo32GGIO1 Ind14
Ind15		
	stVal	SPo32GGIO1 Ind15
Ind16		
	stVal	SPo32GGIO1 Ind16
Ind17		
	stVal	SPo32GGIO1 Ind17
Ind18		
	stVal	SPo32GGIO1 Ind18
Ind19		
	stVal	SPo32GGIO1 Ind19
Ind20		
	stVal	SPo32GGIO1 Ind20
Ind21		
	stVal	SPo32GGIO1 Ind21
Ind22		
	stVal	SPo32GGIO1 Ind22
Ind23		
	stVal	SPo32GGIO1 Ind23
Ind24		
	stVal	SPo32GGIO1 Ind24
Ind25		
	stVal	SPo32GGIO1 Ind25
Ind26		
	stVal	SPo32GGIO1 Ind26
Ind27		
	stVal	SPo32GGIO1 Ind27
Ind28		
	stVal	SPo32GGIO1 Ind28
Ind29		
	stVal	SPo32GGIO1 Ind29
Ind30		
	stVal	SPo32GGIO1 Ind30
Ind31		
	stVal	SPo32GGIO1 Ind31
Ind32		
	stVal	SPo32GGIO1 Ind32

SPDOnsGGIO1		
DOI	DA Group	Reyrolle 7SR220



Health		
	stVal	ProtectionHealthy
SPCSO		
	ctIVal	SPDOs 1 (OFF/OPEN)
	stVal	SPDOs 1 (ON/CLOSE)
	stVal	SPDOs 1 Status (ON/CLOSED)

SPDOsGGIO2		
DOI	DA Group	Reyrolle 7SR220
Health		
	stVal	ProtectionHealthy
SPCSO		
	ctIVal	SPDOs 2 (OFF/OPEN)
	stVal	SPDOs 2 (ON/CLOSE)
	stVal	SPDOs 2 Status (ON/CLOSED)

SPDOsGGIO3		
DOI	DA Group	Reyrolle 7SR220
Health		
	stVal	ProtectionHealthy
SPCSO		
	ctIVal	SPDOs 3 (OFF/OPEN)
	stVal	SPDOs 3 (ON/CLOSE)
	stVal	SPDOs 3 Status (ON/CLOSED)

SPDOsGGIO4		
DOI	DA Group	Reyrolle 7SR220
Health		
	stVal	ProtectionHealthy
SPCSO		
	ctIVal	SPDOs 4 (OFF/OPEN)
	stVal	SPDOs 4 (ON/CLOSE)
	stVal	SPDOs 4 Status (ON/CLOSED)

SPDOesGGIO1		
DOI	DA Group	Reyrolle 7SR220
Health		
	stVal	ProtectionHealthy
SPCSO		
	ctIVal	SPDOes 1 (OFF/OPEN)
	stVal	SPDOes 1 (ON/CLOSE)
	stVal	SPDOes 1 Status (ON/CLOSED)

SPDOesGGIO2		
DOI	DA Group	Reyrolle 7SR220
Health		
	stVal	ProtectionHealthy
SPCSO		
	ctIVal	SPDOes 2 (OFF/OPEN) SPDOes 2 (ON/CLOSE)
	stVal	SPDOes 2 Status (ON/CLOSED)

SPDOesGGIO3		
DOI	DA Group	Reyrolle 7SR220
Health		
	stVal	ProtectionHealthy
SPCSO		
	ctIVal	SPDOes 3 (OFF/OPEN) SPDOes 3 (ON/CLOSE)
	stVal	SPDOes 3 Status (ON/CLOSED)

SPDOesGGIO4		
DOI	DA Group	Reyrolle 7SR220
Health		
	stVal	ProtectionHealthy
SPCSO		
	ctIVal	SPDOes 4 (OFF/OPEN) SPDOes 4 (ON/CLOSE)
	stVal	SPDOes 4 Status (ON/CLOSED)

DPDOsGGIO1		
DOI	DA Group	Reyrolle 7SR220
Health		
	stVal	ProtectionHealthy
DPCSO		
	ctIVal	DPDOs 1 (OFF/OPEN) DPDOs 1 (ON/CLOSE)
	stVal	DPDOs 1 Status (OFF/OPEN) DPDOs 1 Status (ON/CLOSED)

DPDOsGGIO2		
DOI	DA Group	Reyrolle 7SR220
Health		
	stVal	ProtectionHealthy
DPCSO		
	ctIVal	DPDOs 2 (OFF/OPEN) DPDOs 2 (ON/CLOSE)
	stVal	DPDOs 2 Status (OFF/OPEN)

		DPDOs 2 Status (ON/CLOSED)
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DPDOsGGIO3		
DOI	DA Group	Reyrolle 7SR220
Health		
	stVal	ProtectionHealthy
DPCSO		
	ctlVal	DPDOs 3 (OFF/OPEN)
		DPDOs 3 (ON/CLOSE)
	stVal	DPDOs 3 Status (OFF/OPEN)
		DPDOs 3 Status (ON/CLOSED)

DPDOsGGIO4		
DOI	DA Group	Reyrolle 7SR220
Health		
	stVal	ProtectionHealthy
DPCSO		
	ctlVal	DPDOs 4 (OFF/OPEN)
		DPDOs 4 (ON/CLOSE)
	stVal	DPDOs 4 Status (OFF/OPEN)
		DPDOs 4 Status (ON/CLOSED)

DPDOesGGIO1		
DOI	DA Group	Reyrolle 7SR220
Health		
	stVal	ProtectionHealthy
DPCSO		
	ctlVal	DPDOes 1 (OFF/OPEN)
		DPDOes 1 (ON/CLOSE)
	stVal	DPDOes 1 Status (OFF/OPEN)
		DPDOes 1 Status (ON/CLOSED)

DPDOesGGIO2		
DOI	DA Group	Reyrolle 7SR220
Health		
	stVal	ProtectionHealthy
DPCSO		
	ctlVal	DPDOes 2 (OFF/OPEN)
		DPDOes 2 (ON/CLOSE)
	stVal	DPDOes 2 Status (OFF/OPEN)
		DPDOes 2 Status (ON/CLOSED)

DPDOesGGIO3		
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DOI	DA Group	Reyrolle 7SR220
Health		
	stVal	ProtectionHealthy
DPCSO		
	ctIVal	DPDOes 3 (OFF/OPEN)
	stVal	DPDOes 3 (ON/CLOSE)
		DPDOes 3 Status (OFF/OPEN)
		DPDOes 3 Status (ON/CLOSED)

DPDOesGGIO4		
DOI	DA Group	Reyrolle 7SR220
Health		
	stVal	ProtectionHealthy
DPCSO		
	ctIVal	DPDOes 4 (OFF/OPEN)
	stVal	DPDOes 4 (ON/CLOSE)
		DPDOes 4 Status (OFF/OPEN)
		DPDOes 4 Status (ON/CLOSED)

DPi8GGIO1		
DOI	DA Group	Reyrolle 7SR220
Health		
	stVal	ProtectionHealthy
DPCSO1		
	ctIVal	DPi8GGIO1 DPCSO1 (OFF/OPEN)
		DPi8GGIO1 DPCSO1 (ON/CLOSE)
DPCSO2		
	ctIVal	DPi8GGIO1 DPCSO2 (OFF/OPEN)
		DPi8GGIO1 DPCSO2 (ON/CLOSE)
DPCSO3		
	ctIVal	DPi8GGIO1 DPCSO3 (OFF/OPEN)
		DPi8GGIO1 DPCSO3 (ON/CLOSE)
DPCSO4		
	ctIVal	DPi8GGIO1 DPCSO4 (OFF/OPEN)
		DPi8GGIO1 DPCSO4 (ON/CLOSE)
DPCSO5		
	ctIVal	DPi8GGIO1 DPCSO5 (OFF/OPEN)
		DPi8GGIO1 DPCSO5 (ON/CLOSE)
DPCSO6		
	ctIVal	DPi8GGIO1 DPCSO6 (OFF/OPEN)
		DPi8GGIO1 DPCSO6 (ON/CLOSE)
DPCSO7		
	ctIVal	DPi8GGIO1 DPCSO7 (OFF/OPEN)
		DPi8GGIO1 DPCSO7 (ON/CLOSE)

DPCSO8		
	ctIVal	DPi8GGIO1 DPCSO8 (OFF/OPEN) DPi8GGIO1 DPCSO8 (ON/CLOSE)

DPi8GGIO2		
DOI	DA Group	Reyrolle 7SR220
Health		
	stVal	ProtectionHealthy
DPCSO1		
	ctIVal	DPi8GGIO2 DPCSO1 (OFF/OPEN) DPi8GGIO2 DPCSO1 (ON/CLOSE)
DPCSO2		
	ctIVal	DPi8GGIO2 DPCSO2 (OFF/OPEN) DPi8GGIO2 DPCSO2 (ON/CLOSE)
DPCSO3		
	ctIVal	DPi8GGIO2 DPCSO3 (OFF/OPEN) DPi8GGIO2 DPCSO3 (ON/CLOSE)
DPCSO4		
	ctIVal	DPi8GGIO2 DPCSO4 (OFF/OPEN) DPi8GGIO2 DPCSO4 (ON/CLOSE)
DPCSO5		
	ctIVal	DPi8GGIO2 DPCSO5 (OFF/OPEN) DPi8GGIO2 DPCSO5 (ON/CLOSE)
DPCSO6		
	ctIVal	DPi8GGIO2 DPCSO6 (OFF/OPEN) DPi8GGIO2 DPCSO6 (ON/CLOSE)
DPCSO7		
	ctIVal	DPi8GGIO2 DPCSO7 (OFF/OPEN) DPi8GGIO2 DPCSO7 (ON/CLOSE)
DPCSO8		
	ctIVal	DPi8GGIO2 DPCSO8 (OFF/OPEN) DPi8GGIO2 DPCSO8 (ON/CLOSE)

DPo8GGIO1		
DOI	DA Group	Reyrolle 7SR220
Health		
	stVal	ProtectionHealthy
DPCSO1		
	stVal	DPo8GGIO1 DPCSO1 (OFF/OPEN) DPo8GGIO1 DPCSO1 (ON/CLOSE)
DPCSO2		
	stVal	DPo8GGIO1 DPCSO2 (OFF/OPEN) DPo8GGIO1 DPCSO2 (ON/CLOSE)

DPCSO3		
	stVal	DPo8GGIO1 DPCSO3 (OFF/OPEN) DPo8GGIO1 DPCSO3 (ON/CLOSE)
DPCSO4		
	stVal	DPo8GGIO1 DPCSO4 (OFF/OPEN) DPo8GGIO1 DPCSO4 (ON/CLOSE)
DPCSO5		
	stVal	DPo8GGIO1 DPCSO5 (OFF/OPEN) DPo8GGIO1 DPCSO5 (ON/CLOSE)
DPCSO6		
	stVal	DPo8GGIO1 DPCSO6 (OFF/OPEN) DPo8GGIO1 DPCSO6 (ON/CLOSE)
DPCSO7		
	stVal	DPo8GGIO1 DPCSO7 (OFF/OPEN) DPo8GGIO1 DPCSO7 (ON/CLOSE)
DPCSO8		
	stVal	DPo8GGIO1 DPCSO8 (OFF/OPEN) DPo8GGIO1 DPCSO8 (ON/CLOSE)

DPo8GGIO2		
DOI	DA Group	Reyrolle 7SR220
Health		
	stVal	ProtectionHealthy
DPCSO1		
	stVal	DPo8GGIO2 DPCSO1 (OFF/OPEN) DPo8GGIO2 DPCSO1 (ON/CLOSE)
DPCSO2		
	stVal	DPo8GGIO2 DPCSO2 (OFF/OPEN) DPo8GGIO2 DPCSO2 (ON/CLOSE)
DPCSO3		
	stVal	DPo8GGIO2 DPCSO3 (OFF/OPEN) DPo8GGIO2 DPCSO3 (ON/CLOSE)
DPCSO4		
	stVal	DPo8GGIO2 DPCSO4 (OFF/OPEN) DPo8GGIO2 DPCSO4 (ON/CLOSE)
DPCSO5		
	stVal	DPo8GGIO2 DPCSO5 (OFF/OPEN) DPo8GGIO2 DPCSO5 (ON/CLOSE)
DPCSO6		
	stVal	DPo8GGIO2 DPCSO6 (OFF/OPEN) DPo8GGIO2 DPCSO6 (ON/CLOSE)
DPCSO7		
	stVal	DPo8GGIO2 DPCSO7 (OFF/OPEN) DPo8GGIO2 DPCSO7 (ON/CLOSE)

DPCSO8		
	stVal	DPo8GGIO2 DPCSO8 (OFF/OPEN) DPo8GGIO2 DPCSO8 (ON/CLOSE)

## 2.4 L Device – DR (Disturb Rec)

LLN0 DR		
DOI	DA Group	Reyrolle 7SR220
Health		
	stVal	ProtectionHealthy

LPHD1 DR		
DOI	DA Group	Reyrolle 7SR220
PhyHealth		
	stVal	ProtectionHealthy
PhyNam		
	model	MLFB Number
	serNum	Serial Number
	swRev	Software Revision
	vendor	Vendor Name

RDRE1		
DOI	DA Group	Reyrolle 7SR220
Health		
	stVal	ProtectionHealthy
RcdMade		
	stVal	Waveform Rec Complete
FltNum		
	stVal	Fault Number
GriFltNum		
	stVal	Fault Number