

7SG11 Argus 8

Check and System Synchronising Relays

Document Release History

This document is issue 2010/02 The list of revisions up to and including this issue is:

Pre release

2010/02	Document reformat due to rebrand

Software Revision History

2011/11	2422H80004R7	Fault trigger when the voltage blocking threshold is OFF. IEC 60870-5-103 fault numbering for fault and its measurands
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Appendix

Attached are Setting Configuration Sheets, which can be photocopied and used to store a record of a relay's settings. Also, attached is a Programming Matrix, which is a convenient way of recording the input / output logic for a relay.

GENERAL INFORMATION	
Relay Type	:
Article Number	:
Serial Number	:
Date	:
Station	:
Circuit	:

The following Setting Menu Tables are for **SETTINGS GROUP G**

SYSTEM CONFIGURATION MENU		
SETTING	RANGE	SET VALUE
Active Settings Group	G1-G8	
Power System Frequency	50 / 60 Hz	
Voltage Blocking Threshold	1V – 100V step 1V	
Connection (<i>3 pole versions</i>)	3Ph-Ph 3Ph-N+NVD 2Ph-Ph+NVD	
Connection (<i>2 pole versions</i>)	2Ph-Ph Ph-N+NVD Ph-Ph+NVD 2 Systems A/B	
Ph VT Primary	000000 – 999999	
Ph VT Secondary	40, 40.1...70.0, 70.5...150.0	
3Vo VT Primary	000000 – 999999	
3Vo VT Secondary	40, 40.1...70.0, 70.5...150.0	
Set Identifier	Up to 16 alphanumeric characters	
Set Alarm 1	Up to 13 alphanumeric characters	
Set Alarm 2	Up to 13 alphanumeric characters	
Set Alarm 3	Up to 13 alphanumeric characters	
Set Alarm 4	Up to 13 alphanumeric characters	
Set Alarm 5	Up to 13 alphanumeric characters	
Set Alarm 6	Up to 13 alphanumeric characters	
Set Alarm 7	Up to 13 alphanumeric characters	
Set Alarm 8	Up to 13 alphanumeric characters	
Set Alarm 9	Up to 13 alphanumeric characters	
Calendar – Set Date	DD/MM/YY	
Clock - Set Time	HH:MM:SS	
Clock Sync. From Status	Seconds or Minutes	
Default Screen Timer	10sec, 60sec, 5min, 1hour	
Change Password	4 alphanumeric characters	

VOLTAGE MENU (can be used also for SYSTEM A and SYSTEM B MENUS)		
SETTING	RANGE	SET VALUE
Gn V Element 1 Operation	OFF, O/V, U/V	
Gn V Element 1 Setting	OFF, 5V – 200V step 0.5V	

VOLTAGE MENU (can be used also for SYSTEM A and SYSTEM B MENUS)		
SETTING	RANGE	SET VALUE
Gn V Element 1 Delay	0.00 – 20.00 step 0.01 sec 20.0 – 100.0 step 0.5 sec 100 – 600 step 1.0 sec	
Gn V Element 1 Hysteresis	1% – 90% step 1%	
Gn V Element 1 O/P Phases	Any 1, All	
Gn V Element 2 Operation	OFF, O/V, U/V	
Gn V Element 2 Setting	OFF, 5V – 200V step 0.5V	
Gn V Element 2 Delay	As Element 1 Delay	
Gn V Element 2 Hysteresis	1% – 90% step 1%	
Gn V Element 2 O/P Phases	Any 1, All	
Gn V Element 3 Operation	OFF, O/V, U/V	
Gn V Element 3 Setting	OFF, 5V – 200V step 0.5V	
Gn V Element 3 Delay	As Element 1 Delay	
Gn V Element 3 Hysteresis	1% – 90% step 1%	
Gn V Element 3 O/P Phases	Any 1, All	
Gn V Element 4 Operation	OFF, O/V, U/V	
Gn V Element 4 Setting	OFF, 5V – 200V step 0.5V	
Gn V Element 4 Delay	As Element 1 Delay	
Gn V Element 4 Hysteresis	1% – 90% step 1%	
Gn V Element 4 O/P Phases	Any 1, All	

NEUTRAL VOLTAGE MENU		
SETTING	RANGE	SET VALUE
Gn 3Vo Element 1 Setting	OFF, 1 – 100V step 0.5V	
Gn 3Vo Element 1 Delay	0.00 – 20.00 step 0.01 sec 20.0 – 100.0 step 0.5 sec 100 – 600 step 1.0 sec	
Gn 3Vo Element 2 Setting	OFF, 1 – 100V step 0.5V	
Gn 3Vo Element 2 Delay	As Element 1 Delay	

NPS OVERVOLTAGE MENU		
SETTING	RANGE	SET VALUE
Gn V2 Element 1 Setting	OFF, 1 – 100V step 0.5V	
Gn V2 Element 1 Delay	0.00 – 20.00 step 0.01 sec 20.0 – 100.0 step 0.5 sec 100 – 600 step 1.0 sec	
Gn V2 Element 2 Setting	OFF, 1 – 100V step 0.5V	
Gn V2 Element 2 Delay	As Element 1 Delay	

FREQUENCY MENU		
SETTING	RANGE	SET VALUE
Gn F Element 1 Operation	OFF, O/F, U/F	
Gn F Element 1 Setting	47.00Hz – 62.00Hz step 0.01Hz	
Gn F Element 1 Delay	0.00 – 20.00 step 0.01 sec 20.0 – 100.0 step 0.5 sec 100 – 600 step 1.0 sec	
Gn F Element 1 Inhib	VE1, VE2, VE3, VE4	
Gn F Element 2 Operation	OFF, O/F, U/F	
Gn F Element 2 Setting	47.00Hz – 62.00Hz step 0.01Hz	
Gn F Element 2 Delay	As Element 1 Delay	
Gn F Element 2 Inhib	VE1, VE2, VE3, VE4	
Gn F Element 3 Operation	OFF, O/F, U/F	
Gn F Element 3 Setting	47.00Hz – 62.00Hz step 0.01Hz	
Gn F Element 3 Delay	As Element 1 Delay	
Gn F Element 3 Inhib	VE1, VE2, VE3, VE4	
Gn F Element 4 Operation	OFF, O/F, U/F	
Gn F Element 4 Setting	47.00Hz – 62.00Hz step 0.01Hz	
Gn F Element 4 Delay	As Element 1 Delay	
Gn F Element 4 Inhib	VE1, VE2, VE3, VE4	

O/P RELAY CONFIG MENU		
SETTING	RANGE	SET VALUE
Gn Relay Healthy	RL1..RL11	
Gn V Block Alarm	RL1..RL11	
Gn VE1 Starter	RL1..RL11	
Gn VE1 Trip	RL1..RL11	
Gn VE2 Starter	RL1..RL11	
Gn VE2 Trip	RL1..RL11	
Gn VE3 Starter	RL1..RL11	
Gn VE3 Trip	RL1..RL11	
Gn VE4 Starter	RL1..RL11	
Gn VE4 Trip	RL1..RL11	
Gn 3VoE1 Starter	RL1..RL11	
Gn 3VoE1 Trip	RL1..RL11	
Gn 3VoE2 Starter	RL1..RL11	
Gn 3VoE2 Trip	RL1..RL11	
Gn V2E1 Starter	RL1..RL11	
Gn V2E1 Trip	RL1..RL11	
Gn V2E2 Starter	RL1..RL11	
Gn V2E2 Trip	RL1..RL11	
Gn FE1 Starter	RL1..RL11	
Gn FE1 Trip	RL1..RL11	
Gn FE2 Starter	RL1..RL11	
Gn FE2 Trip	RL1..RL11	
Gn FE3 Starter	RL1..RL11	
Gn FE3 Trip	RL1..RL11	
Gn FE4 Starter	RL1..RL11	
Gn FE4 Trip	RL1..RL11	
Gn Status 1	RL1..RL11	
Gn Status 2	RL1..RL11	
Gn Status 3	RL1..RL11	
Gn Status 4	RL1..RL11	
Gn Status 5	RL1..RL11	
Gn Status 6	RL1..RL11	
Gn Status 7	RL1..RL11	
Gn Status 8	RL1..RL11	
Gn Status 9	RL1..RL11	
Gn Trip counter Alarm	RL1..RL11	
Gn PowerOn Count	RL1..RL11	
Gn Hand Reset	RL1..RL11	
Min O/P Energise Time	100 – 500ms step 50ms	

STATUS CONFIG MENU		
SETTING	RANGE	SET VALUE
Settings Group Select	S1..S9 (Note : special setting where each status can be set from 1-8 to select active group 1-8)	
Inverted Inputs	S1..S9	
Gn VE1 Inhibit	S1..S9	
Gn VE2 Inhibit	S1..S9	
Gn VE3 Inhibit	S1..S9	
Gn VE4 Inhibit	S1..S9	
Gn 3VoE1 Inhibit	S1..S9	
Gn 3VoE2 Inhibit	S1..S9	
Gn V2E1 Inhibit	S1..S9	
Gn V2E2 Inhibit	S1..S9	
Gn FE1 Inhibit	S1..S9	
Gn FE2 Inhibit	S1..S9	
Gn FE3 Inhibit	S1..S9	
Gn FE4 Inhibit	S1..S9	
Gn Trip Circuit Fail	S1..S9	
Gn ALARM 1	S1..S9	
Gn ALARM 2	S1..S9	
Gn ALARM 3	S1..S9	
Gn ALARM 4	S1..S9	
Gn ALARM 5	S1..S9	
Gn ALARM 6	S1..S9	
Gn ALARM 7	S1..S9	
Gn ALARM 8	S1..S9	
Gn ALARM 9	S1..S9	
Gn Waveform Trigger	S1..S9	
Gn Clock Sync.	S1..S9	
Gn Reset Outputs	S1..S9	
Gn Status 1 P/U Delay	0 – 2.00 sec step 10ms 2.10 – 20.00 sec step 100ms 21 – 300 sec step 1 sec 360 – 3600 sec step 60 sec 3900 – 14400 sec step 300 sec	
Gn Status 1 D/O Delay	As above	
Gn Status 2 P/U Delay	As above	
Gn Status 2 D/O Delay	As above	
Gn Status 3 P/U Delay	As above	
Gn Status 3 D/O Delay	As above	
Gn Status 4 P/U Delay	As above	
Gn Status 4 D/O Delay	As above	
Gn Status 5 P/U Delay	As above	
Gn Status 5 D/O Delay	As above	
Gn Status 6 P/U Delay	As above	
Gn Status 6 D/O Delay	As above	
Gn Status 7 P/U Delay	As above	
Gn Status 7 D/O Delay	As above	

STATUS CONFIG MENU		
SETTING	RANGE	SET VALUE
Gn Status 8 P/U Delay	As above	
Gn Status 8 D/O Delay	As above	
Gn Status 9 P/U Delay	As above	
Gn Status 9 D/O Delay	As above	

COMMS INTERFACE MENU		
SETTING	RANGE	SET VALUE
Comms Baud Rate	75, 110, 150, 300, 600, 1200, 2400, 4800, 9600, 19200	
Comms Parity	NONE, EVEN	
Relay Address	0 – 254	
Line Idle	LIGHT ON, LIGHT OFF	
Data Echo	OFF / ON	

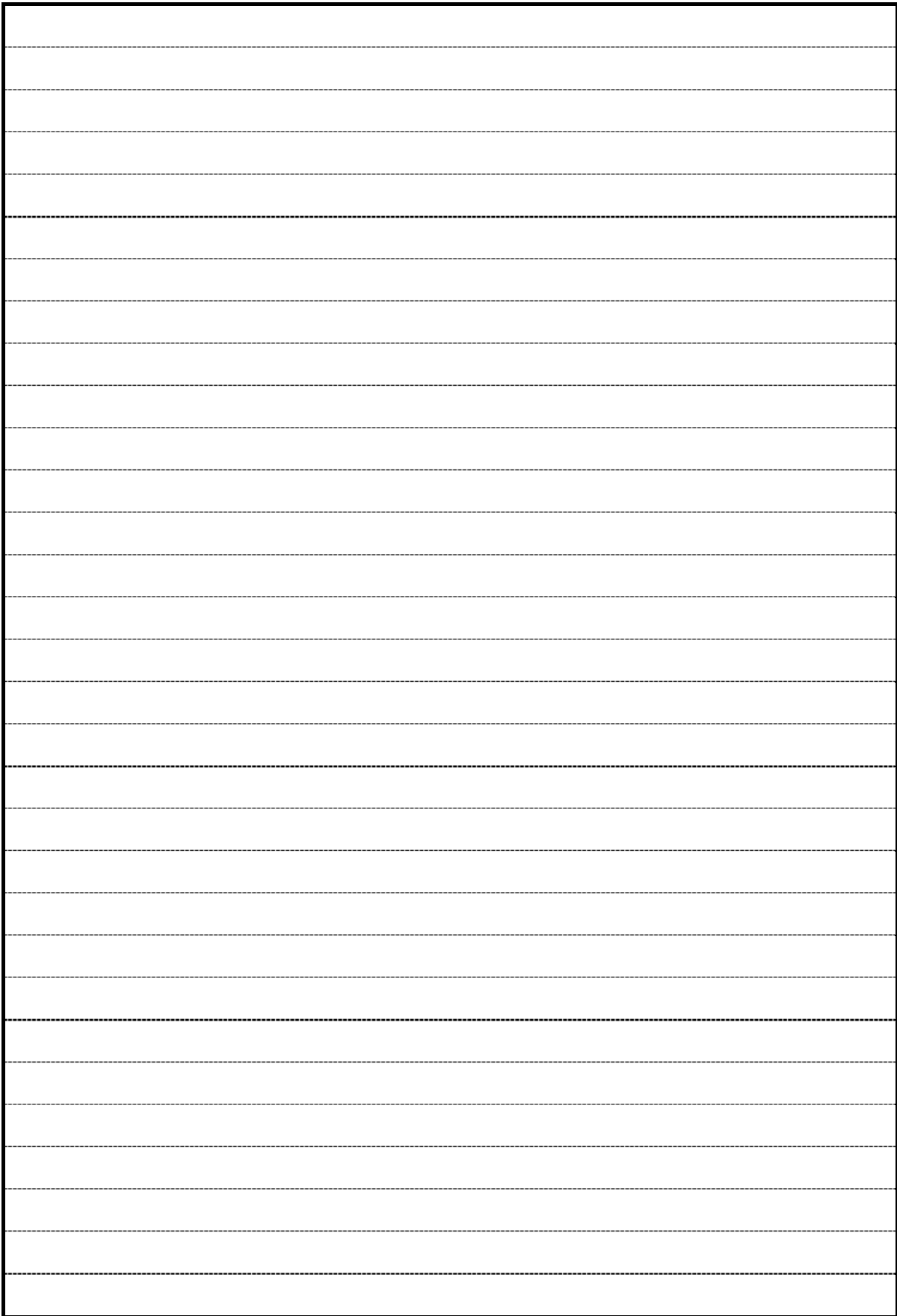
DATA STORAGE MENU		
SETTING	RANGE	SET VALUE
Gn Fault Trigger	RL1..RL11	
Gn Waveform Trig	STA, V, F, NPS, NVD	
Gn Waveform Pre-trigger	OFF, 10%-100% step 10%	

CB MAINTENANCE MENU		
SETTING	RANGE	SET VALUE
Trip Counter Alarm	OFF, 1 – 999 step 1	
Power On Count Alarm	OFF, 1 – 999 step 1	

Notes Pages

A large rectangular area containing horizontal dashed lines, intended for handwritten notes.

Notes Pages



This area is a large rectangular frame with a solid black border. Inside the frame, there are 25 horizontal dashed lines spaced evenly, providing a guide for writing notes. The lines are parallel to each other and extend across the width of the frame.