

7SG22 Iota

Input / Output Units

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

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1 System Configuration Menu

Description	Range	Default
Active Setting Group	1, 2	1
View/Edit Group	1, 2	1
Date	Day/Month/Year	1/1/1998
Time	Hrs:Min:Sec	00:00:00
Change Password	AAAA...ZZZZ	NONE
Relay Identifier	Upto 16 characters	IOTA

2 Status Configuration

Description	Range	Default
Input Matrix Tag Name	NONE, 1...27	NONE
Trigger Storage	NONE, 1...27	NONE

3 Reylogic Configuration – Scheme Name

Description	Range	Default
Counter -Scheme Dependant	1 ... 999 step 1 1000 ... 10000 step 10 10000 ... 60000 step 100	1
Pick up Delay – per timer Scheme Dependant	0 ... 999 ms step 1ms 1 ... 9.9s step 10ms 10 ...60s step 100ms	0
Drop off Delay – per timer Scheme Dependant	0 ... 999 ms step 1ms 1 ... 9.9s step 10ms 10 ...60s step 100ms	0

4 Output Configuration

Description	Range	Default
Output Matrix Tag Names	NONE, 1...29	NONE
Protection Healthy	NONE, 1...29	NONE
Hand Reset Relays	NONE, 1...29	NONE

5 Led Configuration

Description	Range	Default
Output Matrix Tag Names	NONE, 1...16/32	NONE
Self Reset LED's	NONE, 1...16/32	NONE

6 Data Storage Menu

Description	Range	Default
Pre-Trigger Storage	0...100 % STEP 10%	20 %
Data Record Duration	10Recs x 1Second 5Recs x 2Second 2Recs x 5Second 1Recs x 10Second	10Recs x 1Second

4 Communications Menu

Description	Range	Default
Station Address	0...254	0
IEC870 On Port	Com1, Com2	Com1
Com1 Baud Rate	75, 110, 300, 600, 1200, 2400, 4800, 9600, 19200, 38400, 57600, 115200	19200
Com1 Parity	Even, Odd, None	Even
Com1 Line Idle	Light Off, Light On	Light Off
Com1 Data Echo	Off, On	Off
Com2 Baud Rate	75, 110, 300, 600, 1200, 2400, 4800, 9600, 19200, 38400, 57600, 115200	19200
Com2 Parity	Even, Odd, None	Even
Com2 Line Idle	Light Off, Light On	Light Off
Com2 Data Echo	Off, On	Off
Com2 Direction	Auto-Detect, Rear Port, Front Port	Auto-Detect

APPENDIX A

Settings Walkthrough

The relay displays are organised into three lists:-

- A list of settings
- A list of instruments
- A list of fault records

This walkthrough describes the settings and is intended to be read in front of a powered-up relay. The starting point is the relay identifier screen. This is the screen the relay displays when it is first powered-up and can be reached from any display by pressing CANCEL.

From this position press the down arrow key ↓ once, the relay will display "SETTINGS MODE". From this display the down arrow key ↓ can be pressed again to enter the setting list, or the right arrow key ⇒ can be pressed to choose a different list ("INSTRUMENTS MODE"). Press the down arrow key ↓. The relay enters the settings list and displays "SYSTEM CONFIG MENU".

SYSTEM CONFIG MENU

This menu contains general settings which allows the relay to be configured. Press ⇒ to open the menu and display the settings.

Active Group

There are 2 setting groups in the relay. Some settings can have different values in each group while others have the same value in all groups. This setting controls which group of values is applied to the relay. When it is changed all the settings which can have different values in each group are changed.

View/Edit Group

Each setting group can be viewed and edited without making it active. Settings that can be different in each group indicate which group the displayed value belongs to with the letter "G" and the group number in front of the setting description. This setting controls which group is displayed.

IMPORTANT: whichever group of settings are visible may **NOT** be the settings the relay is using. The relay will only operate on the **Active Group** regardless of the displayed settings.

Date

The current date is set in this menu. The format is DD,MM,YYYY

Time

The current time is set. In this menu only minutes and hours are set. The format is HH,MM the 24 hour clock is used.

Change Password

The relay is provided with a password feature. If set it will prevent any un-authorized changes to any of the relay settings. The password is a four character word once set it can be disabled by entering the new password NONE.

Note that the password validation screen also displays a numerical code. If the password is lost or forgotten, this code can be communicated to Reyrolle Protection by authorised personnel, and the password can be retrieved.

Relay Identifier

The relay is supplied with a default identifier usually the relay model. This can be changed to give any

meaningful identification to the relay. eg feeder name or circuit number.

This is the last setting in this menu. Press ↓ to display the next menu.

STATUS CONFIG MENU

The number of status inputs can vary with the relay model type. Each of the status inputs can be mapped to any one or more of the Reylogic inputs. The tag names allocated to the inputs on the ReyLogiC scheme appear in this menu.

Trigger Storage

An external device can be used to trigger the waveform storage through this input

REYLOGIC CONFIG MENU

Settings of functions that have been configured in ReyLogiC, and have been configured to be visible settings, are found in this menu.
i.e. Counters and timers

OUTPUT CONFIG MENU

Depending upon the configuration of the ReyLogiC within the relay there are a large number of signals, which can be mapped to output contacts. Every output connection on the Reylogic scheme can be selected to appear in this menu and mapped to one or more of the output relays. All outputs are listed by their 'tag name' which can be modified in ReyLogiC. All output relays are self reset unless selected to be hand reset in this menu.

Protection Healthy

This output monitors the condition of the relay and dc power to the relay. This must be mapped to one of the outputs, which have a normally closed contact. When this function is selected it will permanently operate the selected relay. By using a normally closed contact if there is any failure then this contact will close giving a fail safe alarm condition.

LED CONFIGURATION MENU

With the exception of the "Protection Healthy" item, this menu has the same outputs as the Output Configuration menu and these can be used to energise any of the LED flags.

All LED's are hand reset unless set to be self reset in this menu. If LED's are changed to be hand reset the TEST/RESET button must be pressed on completion of the setting modification.