SELPRO

FEATURES

- ➤ User friendly ladder editor on lines of IEC61131-3
- > Built-in HMI configuration facility
- On line & Off line simulation possible
- > Exhaustive function and function block library
- > Auto Read and Auto Save facility
- > Auto declared variables to represent physical IO of selected configuration
- Project upload from target
- > Editable passwords for download, upload and project
- > Facility to set debounce time for physical inputs
- > Hardware Compatibility- Facility to download applications into the previous versions of bootloader by selecting respective hardware version.
- Customized protocol support (MM3010, MM3030-2)

Programing languages supported

Data types supported

Ladder Diagram

Supportou

Platform

BOOL, SINT,INT, DINT,UINT, USINT,UDINT,

Windows XP, Windows VISTA, Windows-7

TIME, DWORD, REAL (FLOAT), LREAL (DOUBLE). DATE, TOD, WORD.

(500522).5/112,105,1101

RAM-512MB or above, Processor-Min 166MHz Operating System 32 bit

Maximum No. of Ladder

5000 rungs

(Dependent on product memory capacity)

Supported Products

PRODUCTS	MM3010	MM3030	MM1010
VARIANTS	MM3010	MM3030-1	MM1010-1
	MM3010-1	MM3030-2	MM1010-2
	MM3010-2	MM3030-3	MM1010-4
		MM3032	MM1012-1 MM1012-2
		MM3050	MM1013
			MM1015

IO Expansion Modules Supported IO630, IO610

(8DI, 4TO, 4RO, 2AI-TCR, 2AIVI, 2AO)

TYPE

INSTRUCTION BLOCKS IN SELPRO

TYPE	INSTRUCTION	
LOGIC	AND	
	OR	
	NOT	
	XOR	
SELECTION	SELECT	
	MIN	
	MAX	
	LIMIT	
DATA	MOVE	
MANIPULATION	MOVE BLOCK	

ARITHMETIC	ADD
	SUB
	MULTIPLY
	DVI
	INC
	DEC
	MOD
	SPL_ADD
	SPL_SUB
	SCALE

INSTRUCTION

INSTRUCTION BLOCKS IN SELPRO

TYPE	INSTRUCTION
COMPARISON	GE
	GT
	LE
	LT
	NE
	NQ
	WINDOW
NUMERIC	SQRT
	SIN
	ASIN
	COS
	ACOS
	TAN
	ATAN
	LN
	LOG
	ABS
	EXP
	POWER
ANALOG	AIN
	ANALOG OUTPUT

T1/DE	otbuotion
TYPE	INSTRUCTION
SHIFT AND	SHL
ROTATE	SHR
	ROL
	ROR
CONTROL	FTC
	RAMP SOAK
	PID_T
	DIGITAL OUTPUT
BASIC	NO
ELEMENTS	NC
	NT
	PT
	ST
	SB
	RSB
	JUMP
	LABLE
INTERRUPT	PULSE OUTPUT
	PWM
	RATE TOTALIZER
	TOTALIZER

TYPE	INSTRUCTION
COMMUNICATION	FORCE SINGLE COIL
	FORCE MULTIPLE COIL
	READ COIL STATUS
	READ INPUT STATUS
	READ INPUT REGISTER
	READ HOLDING REGISTER
	PRESET SINGLE REGISTER
	PRESET MULTIPLE REGISTER
	SR
	RS
	READ_RTC
FUNCTION	SET_RTC
FUNCTION Block	TIMER ON DELAY
BLOOK	TIMER OFF DELAY
	UP DOWN COUNTER
	TIME SWITCH
	SPECIAL TIMER
	SPECIAL UP DOWN COUNTER
	MVIR
	MVRI
	PULSE TIMER
	UP COUNTER
	UP COUNTER RPS
	DOWN COUNTER
	HYSTERISIS
	1ms TIMER

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SMI

FEATURES

- > User configurable keys.
- > Multiple Global Tasks and Power On Tasks can be defined.
- > Multiple page sequence can be defined.
- > Password protection for Pages are available.

MAXIMUM NO. OF HMI PAGES 255

PROJECT COMPONENTS Page

Text list

Page Sequence Password Levels

Alarms

Global Key Definition Power On Tasks Global Tasks

Global LED Definition

SCREEN OBJECTS Static text,

Numeric text, Dynamic text

RESOLUTION Fixed Resolution(0.0001-1)

User Resolution(0-4)

Tasks supported by SMI

TASK	DESCRIPTION
Add a constant value to tag	Adds a constant value to a tag
Subtract a constant value from tag	Subtracts a constant value from a tag
Add tag B to tag A	Adds contents of tag A and B
Turn Bit On	Turns bit/coil pointed by tag on
Turn Bit Off	Turns bit/coil pointed by tag off
Toggle Bit	Toggles bit/coil pointed by tag
Copy tag B to tag A	Copies contents of tag B into A
Swap tag A and tag B	Swaps contents of tag A and B
Copy tag to STR	Copies contents of tag into STR
Increase value by 1	Increments value of selected tag by 1
Decrease value by 1	Decrements value of selected tag by 1

Tasks supported by SMI

TASK	DESCRIPTION
Conditional Go to Screen	Conditionally takes control on to the screen mentioned while selecting the task
Conditional Go to Next Screen	Conditionally takes control on to the next screen
Conditional Go to Previous Screen	Conditionally takes control on to the previous screen
Conditional Go to Last Screen	Conditionally takes control on to the last screen
Conditional Enable STR	Conditionally Enables screen triggering using STR
Conditional Disable STR	Conditionally Disables screen triggering using STR
Accept Data Entry	Accepts Data at runtime
Conditional Execute Page Sequence	For explanation go to help topics of conditional execute page sequence.
Conditional Escape from Page Sequence	For explanation go to help topics of conditional escape from page sequence.
Escape from Page Sequence	For explanation go to help topics of page sequence.
Execute Page Sequence	For explanation go to help topics of page sequence.
Enable STR	Enables screen triggering using STR
Disable STR	Disables screen triggering using STR
Shift Value Left	Shift value left
Shift Value Right	Shift Value Right
Go to Screen	Takes control on to the screen mentioned while selecting the task
Go to Next Screen	Takes control on to the next screen
Go to Previous Screen	Takes control on to the previous screen
Go to Last Screen	Takes control on to the last screen
Write value to tag	Writes constant value to a tag

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