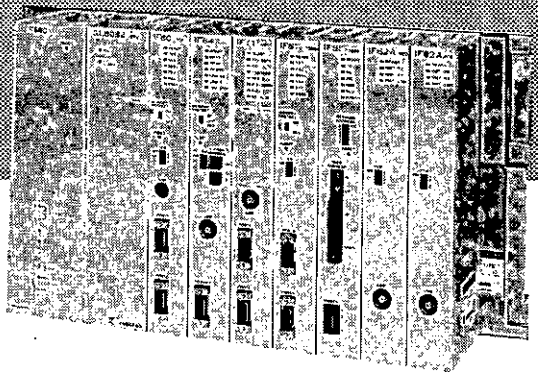
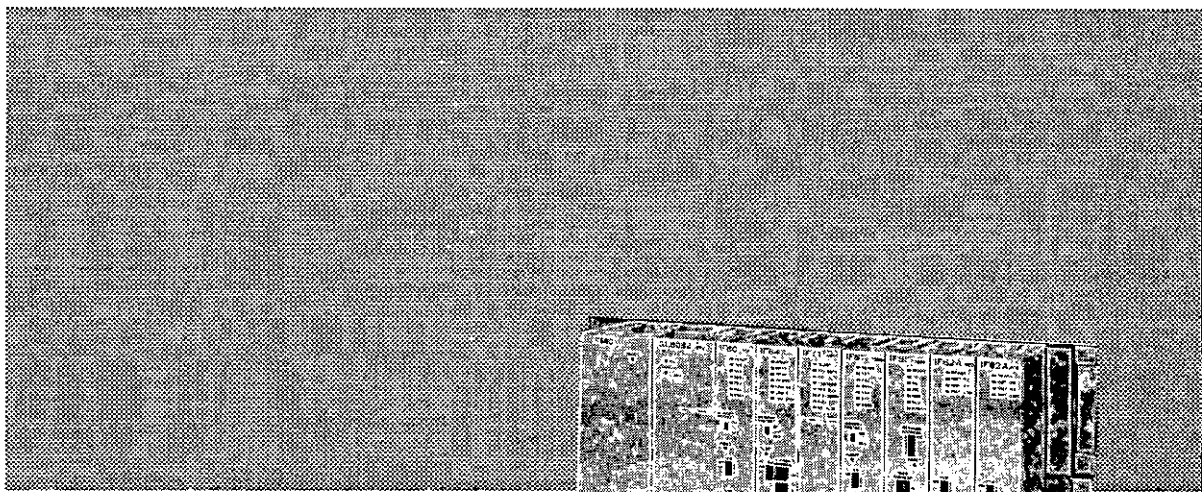


MEMOCON-SC GL60S EXTENDED FUNCTIONS USER'S MANUAL



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1. GL60S MODEL LIST

Memocon-SC GL60S comprises the following five models depending on functions and user memory.

○: Possible
×: Impossible

Model	Program Memory	Extended Register	Function				
			Basic	Remote	ASCII	PC Link	YENET
GL60S0	8 kW	×	○	○	×	×	×
GL60S1	16 kW	×	○	○	○	○	×
GL60S	32 kW	×	○	○	×	×	×
GL60S2	32 kW	×	○	○	○	○	○
GL60S3	32 kW	○	○	○	○	○	○

2. ADDITIONAL PROGRAMMING FUNCTIONS

2.1 ASCII CONTROL

ASCII control is provided for GL60S1, GL60S2 and GL60S3, RIOD must be IF62A for ASCII control.

The following two functions are added for processing ASCII messages.

No.	Name	Symbol
1	Read function	READ
2	Write function	WRIT

For details, refer to SIE-C815-14.4 "PROGRAMMABLE CONTROLLER Memocon-SC GL60S USER'S MANUAL ASCII MODULE."

2.2 LINK COIL AND LINK REGISTER

Link coils (D0001-D1024) and link registers (R0001-R1024) are used for Memocon-SC GL60S1, GL60S2, and GL60S3. They are also available for GL60S0 and GL60S as an internal coil and an internal registers, but not work with real functions.

For more detailed information, refer to SIE-C815-14.8 "PROGRAMMABLE CONTROLLER Memocon-SC GL60S USER'S MANUAL PC LINK MODULE."

2.3 YENET COMMUNICATION FUNCTION

YENET communication function is provided for GL60S2 and GL60S3. The following functions are added for communication.

No.	Name	Symbol
1	MEMOBUS communication	MBUS
2	Selective broadcast	PEER
3	Broadcast to all stations	BROD
4	Book	BOOK
5	Poll	POLL
6	Node diagnosis	DIAG
7	Data send	SND
8	Data receive	RCV

For details, refer to SIE-C815-14.6 "PROGRAMMABLE CONTROLLER Memocon-SC GL60S USER'S MANUAL YENET-3200."

2.4 EXTENDED REGISTER

32 kW (k words) extended registers can be used for GL60S3. The following functions are added for extended register access.

No.	Name	Symbol
1	File read function	FRED
2	File write function	FWRD

Further details are provided in Sect. 3.

2.5 COMMENT AND SYMBOL

Comments and symbols of the references shown in Table 2.1 can be displayed, written-in or deleted in GL60S3.

However, comments for step can be processed when any CPU module of GL60S, GL60S0, GL60S1, GL60S2 or GL60S3 is provided.

List of Comments and Symbols

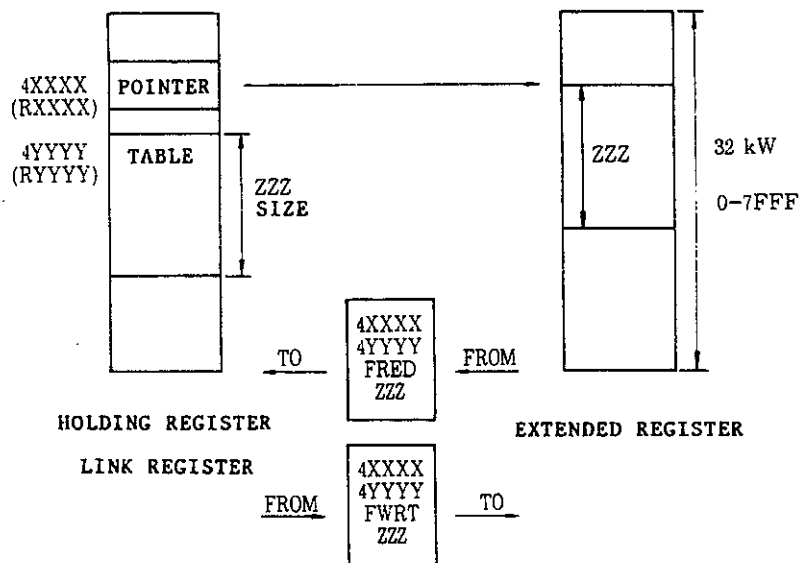
Type	Reference	Symbol	Comment
Coil	00001-08182	Up to 6-alphanumeric characters	Up to 16-alphanumeric characters
Input Relay	10001-14096	Up to 6-alphanumeric characters	Up to 16-alphanumeric characters
Link Relay	D0001-D1024	Up to 6-alphanumeric characters	Up to 16-alphanumeric characters
Step	S001-S512	Up to 6-alphanumeric characters	Up to 8-alphanumeric characters
Input Register	30001-30512	—	Up to 16-alphanumeric characters
Holding Register	40001-40512	—	Up to 16-alphanumeric characters
Link Register	R0001-R1024	—	Up to 16-alphanumeric characters
Network*	L0001-L4096	—	Up to 16-alphanumeric characters

* Up to 4096 comments can be input to networks to be used.

Further details are provided in Sect. 4.

3. EXTENDED REGISTER ACCESS FUNCTION

32 kW extended registers can be used for Memocon-SC GL60S3. By using FRED (FILE READ) and FWRT (FILE WRITE) functions, extended registers can be called up.



NOTE

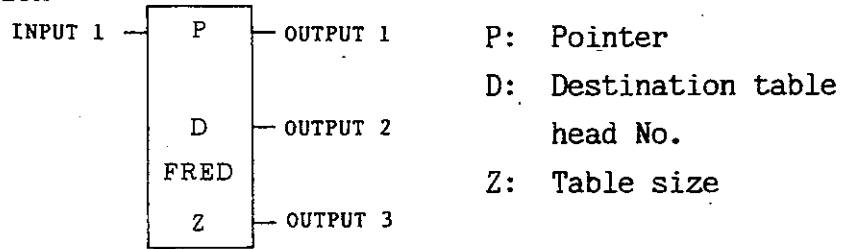
- The contents of extended registers can be monitored or changed to be set in the programming panel.
- When extended registers are called up in the programming panel, references are expressed in hexadecimal of A0000 to A7FFFh.
- Axxxx cannot be referenced directly by ladder.

3.1 FILE READ (FRED)

(1) Function

Data can be read in from extended register.

(2) Configuration



FRED Configuration

- The above figure shows FRED configuration.
- FRED signifies "file read."
- FRED operation requires three elements placed vertically (top, middle, and bottom).

Refer to the table below to specify the registers.

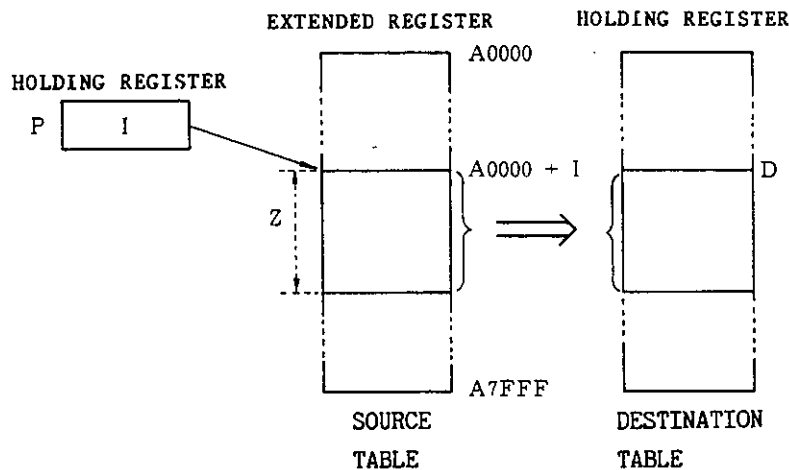
FRED Configuration Elements

Element	Description	Registers to be Specified
Top	Head No. of destination of extended register is specified by pointer.	Holding register (40001 to 49999) Link register (R0001 to R1024)
Middle	Head No. of destination table is specified.	Holding register (40001 to 49999) Link register (R0001 to R1024)
Bottom	Table size	Constant (1 to 100)

Note: The extended registers to be specified by pointer on the top are expressed in hexadecimal of 0 to 7FFFh. Pointer 0 shows head No. of extended register.

3.1 FILE READ (FRED) (Cont'd)

(3) Operation



All registers can be transferred by one scan.

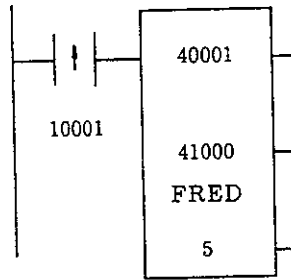
(a) Input

- Input 1: When Input 1 is ON, the first item of data of the source table (extended register) which is expressed by pointer (P) content (I) is transferred to the first place of the destination table; the second part of the data to the second place. Thus, all source data can be transferred to destination table by one scan.
- Input 2: Not used.
- Input 3: Not used.

(b) Output

- Output 1: Copies Input 1.
- Output 2: When Input 1 is ON and pointer (P) content (I) exceeds 7FFFh, Output 2 is ON.
- Output 3: When Input 1 is ON and total amount of pointer (P) content (I) and table size (Z) exceeds 7FFFh, Output 3 is ON.

(4) Example
 (a) Ladder



(b) Content to be transferred

① Register Content before Execution

40001	100h		
41000	111	DESTINATION TABLE	
41001	222		
41002	333		
41003	444		
41004	555		

EXTENDED REGISTER	
100h (A0100)	10
101h (A0101)	20
102h (A0102)	30
103h (A0103)	40
104h (A0104)	50

		SOURCE TABLE
--	--	-----------------

② Register Content after Execution

40001	100h		
41000	10	DESTINATION TABLE	
41001	20		
41002	30		
41003	40		
41004	50		

EXTENDED REGISTER	
100h (A0100)	10
101h (A0101)	20
102h (A0102)	30
103h (A0103)	40
104h (A0104)	50

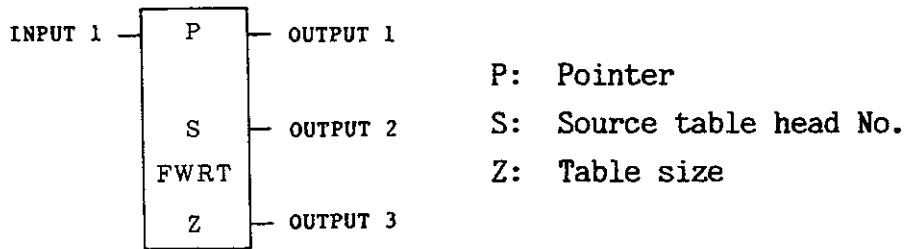
		SOURCE TABLE
--	--	-----------------

3.2 FILE WRITE (FWRT)

(1) Function

Data can be written-in to extended register.

(2) Configuration



FWRT Configuration

- The above figure shows FWRT configuration.
- FWRT signifies "file write."
- FWRT operation requires three elements placed vertically (top, middle, and bottom).

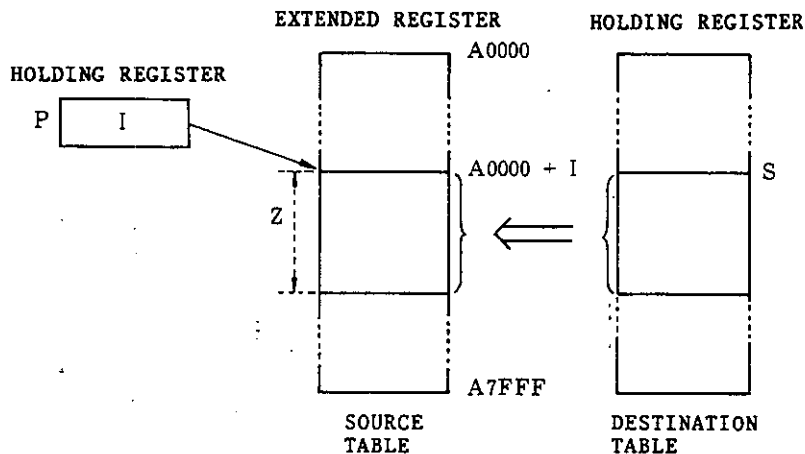
Refer to the table below to specify the registers.

FWRT Configuration Elements

Element	Description	Registers to be Specified
Top	Head No. of destination of extended register is specified by pointer.	Holding register (40001 to 49999) Link register (R0001 to R1024)
Middle	Head No. of destination table is specified.	Holding register (40001 to 49999) Link register (R0001 to R1024)
Bottom	Table size	Constant (1 to 100)

Note: The extended registers to be specified by pointer on the top are expressed in hexadecimal of 0 to 7FFFh. Pointer 0 shows head No. of extended register.

(3) Operation.



All registers can be transferred by one scan.

(a) Input

- Input 1: When Input 1 is ON, the first item of data of the source table (extended register) is transferred to the first place of the destination table which is expressed by pointer (P) content (I) ; the second part of the data to the second place. Thus, all source data can be transferred to destination table by one scan.
- Input 2: Not used.
- Input 3: Not used.

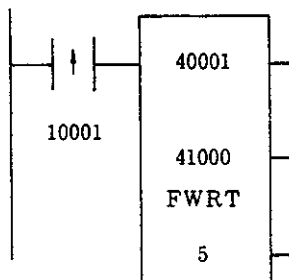
(b) Output

- Output 1: Copies Input 1.
- Output 2: When Input 1 is ON and pointer (P) content (I) exceeds 1FFFh, Output 2 is ON.
- Output 3: When Input 1 is ON and total amount of pointer (P) content (I) and table size (Z) exceeds 7FFFh, Output 3 is ON.

3.2 FILE WRITE (FWRT) (Cont'd)

(4) Example

(a) Ladder



(b) Content to be transferred

① Register Content before Execution

40001	100h		
41000	111	SOURCE TABLE	
41001	222		
41002	333		
41003	444		
41004	555		
			EXTENDED REGISTER
			100h (A0100) 10
			101h (A0101) 20
			102h (A0102) 30
			103h (A0103) 40
			104h (A0104) 50
			DESTINATION TABLE

② Register Content after Execution

40001	100h		
41000	111	SOURCE TABLE	
41001	222		
41002	333		
41003	444		
41004	555		
			EXTENDED REGISTER
			100h (A0100) 111
			101h (A0101) 222
			102h (A0102) 333
			103h (A0103) 444
			104h (A0104) 555
			DESTINATION TABLE

4. COMMENT EDITING

4.1 COMMENT AREA

Comment area on P150 screen comprises STEP comment area in SFC display and COIL comment area and extended comment area in logic display.

For details of STEP comment area and comment editing in SFC display, refer to SIE-C815-14.3 "PROGRAMMABLE CONTROLLER Memocon-SC GL60S USER'S MANUAL-No.3 P150 PROGRAMMING PANEL SFC INFORMATION."

(1) COIL Comment and Network Comment in Logic Display

NETWORK:0001		LADDER		UNIT:001		PROGRAM MODE	
INITIAL CIRCUIT						() INITIAL	
00001						00101 START	
10001 = OFF							
AVAIL:27356		USED:05412		TRACE:NONE		AR:00001	
						SET SEARCH	
- () -	- (L) -	WRITE COMMENT	DELETE COMMENT	ENABLE	DISABLE	FORCE ON	FORCE OFF

(2) Extended Comment Area

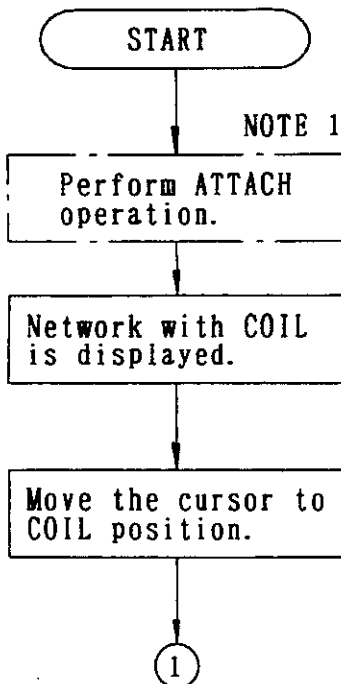
COMMENT		UNIT:001		PROGRAM MODE	
00101 : INIT	40231 :	L0110 :	: CALENDAR CIRCUIT A		
: INITIAL START	40232 :	L0111 :	: CALENDAR CIRCUIT B		
S001 : DUMMY	:	L0001 :	: INITIAL CIRCUIT		
S002 : INIT	40233 :	L0002 :	: DATA READ 1		
: INITIAL STP	:	L0003 :	: DATA READ 2		
10001 : START	40234 :	L0004 :	: DATA TRANSFER		
: INTIAL TRIGGER	:	D0011 :	: SYNC		
30001 :	40235 :	R1001 :	: LINK SYNC		
: DIGITAL SW1	:	:	: LINK DATA		
30002 :	40236 :	00110 :	: RST		
: DIGITAL SW2	:	:	: RESET COIL		
30003 :	40237 :				
: DIGITAL SW3	:				
40001 :	40238 :				
: OUTPUT LED	:				
40002 :	40239 :				
:	:				
	: YEAR				
AVAIL:27356	USED:05412	TRACE:NONE	AR:00001	SET SEARCH	
WRITE SYMBOL	DELETE SYMBOL	WRITE COMMENT	DELETE COMMENT		

4.2 COMMENT EDITING

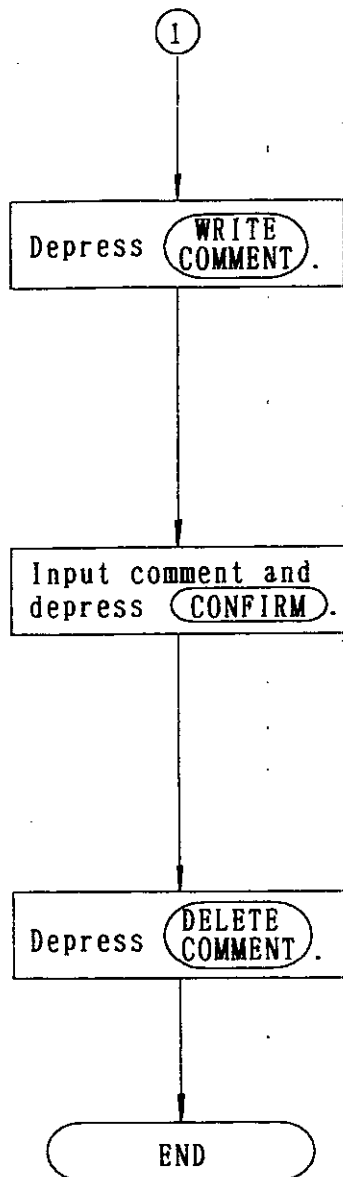
When network with COIL is displayed, the comment is displayed to the right of the COIL and network comment is displayed above the network. COIL comment can be written-in or deleted.

(1) Comment Editing in Logic Display

NETWORK:0001		LADDER		UNIT:001		PROGRAM MODE	
INITIAL CIRCUIT:				() INITIAL			
00001				00101 START			
10001 = OFF							
AVAIL:27356		USED:05412		TRACE:NONE		AR:00001 SET SEARCH	
- ()-	- (L)-	WRITE COMMENT	DELETE COMMENT	ENABLE	DISABLE	FORCE ON	FORCE OFF



NETWORK:0001		LADDER		UNIT:001		PROGRAM MODE	
INITIAL CIRCUIT:				() INITIAL			
00001				00101			
10001 = OFF							
AVAIL:27356		USED:05412		TRACE:NONE		AR:00001 SET SEARCH	
RELAYS	COILS	COUNTER TIMERS	CALCS	DX	SPECIALS	SWEEP FUNCTION	
AVAIL:27356		USED:05412		TRACE:NONE		AR:00001 SEARCH	
- ()-	- (L)-	WRITE COMMENT	DELETE COMMENT	ENABLE	DISABLE	FORCE ON	FORCE OFF



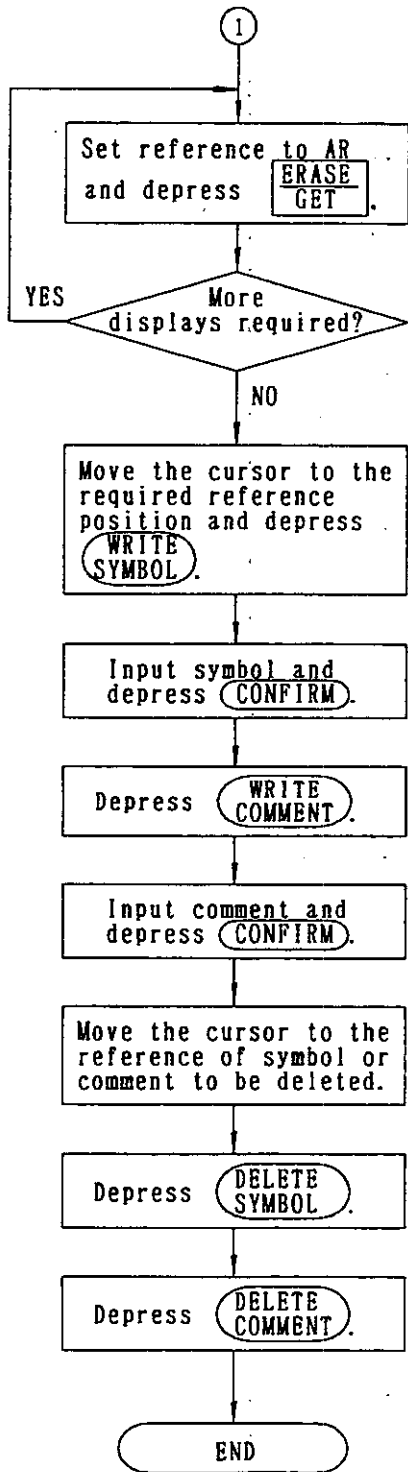
NETWORK:0001		LADDER		UNIT:001		PROGRAM MODE	
INITIAL CIRCUIT:		00001		()		00101	
10001 - OFF		AVAIL:27356		USED:05412		TRACE:NONE	
						AR:00001	
						SET SEARCH	
						CONFIRM	
						CANCEL	

NETWORK:0001		LADDER		UNIT:001		PROGRAM MODE	
INITIAL CIRCUIT:		00001		()		INITIAL 00101 START	
10001 - OFF		AVAIL:27356		USED:05412		TRACE:NONE	
						AR:00001	
						SET SEARCH	
-()-		-(L)-		WRITE COMMENT		DELETE COMMENT	
				ENABLE		DISABLE	
				FORCE ON		FORCE OFF	

NETWORK:0001		LADDER		UNIT:001		PROGRAM MODE	
INITIAL CIRCUIT:		00001		()		00101	
10001 - OFF		AVAIL:27356		USED:05412		TRACE:NONE	
						AR:00001	
						SET SEARCH	
-()-		-(L)-		WRITE COMMENT		DELETE COMMENT	
				ENABLE		DISABLE	
				FORCE ON		FORCE OFF	

NOTE

1. When ATTACH operation has already been completed, this step can be skipped.
2. When depressing **CANCEL** key instead of **CONFIRM** key, comment is not stored and the display prior to the input appears.
3. COIL comment is displayed over two lines.



COMMENT		UNIT:001	PROGRAM MODE
00101 : INIT	40231 : SCRATCH-PAD REG.	L0110 : CALENDAR CIRCUIT A	
S001 : DUMMY	40232 :	L0111 : CALENDAR CIRCUIT B	
S002 : INIT	40233 : TIMER REGISTER	L0001 : INITIAL CIRCUIT	
10001 : START	40234 : SECOND	L0002 : DATA READ 1	
30001 : DIGITAL SW1	40235 : MINUTE	L0003 : DATA READ 2	
30002 : DIGITAL SW2	40236 : HOUR	L0004 : DATA TRANSFER	
30003 : DIGITAL SW3	40237 : DAY	00011 : SYNC	
40001 : OUTPUT LED	40238 : MONTH	R1001 : LINK SYNC	
40002 :	40239 : YEAR	00110 : LINK DATA	
		00110 : RST	
		00110 : RESET COIL	
AVAIL:27356	USED:05412	TRACE:NONE	AR:00001 SET SEARCH
WRITE SYMBOL	DELETE SYMBOL	WRITE COMMENT	DELETE COMMENT

00001 :	40239 : YEAR	00110 : RST	SET SEARCH
		00110 : RESET COIL	
AVAIL:27356	USED:05412	TRACE:NONE	AR:00001
			CONFIRM
			CANCEL

00001 : P-ON	40239 : YEAR	00110 : RST	
		00110 : RESET COIL	

00001 : P-ON	40239 : YEAR	00110 : RST	SET SEARCH
		00110 : RESET COIL	
AVAIL:27356	USED:05412	TRACE:NONE	AR:00001
			CONFIRM
			CANCEL

00001 : P-ON	40239 : YEAR	00110 : RST	
		00110 : RESET COIL	

00001 : P-ON	40239 : YEAR	00110 : RST	SET SEARCH
		00110 : RESET COIL	
AVAIL:27356	USED:05412	TRACE:NONE	AR:00001
WRITE SYMBOL	DELETE SYMBOL	WRITE COMMENT	DELETE COMMENT

00001 : P-ON	40239 : YEAR	00110 : RST	
		00110 : RESET COIL	

00001 : P-ON	40239 : YEAR	00110 :	
		00110 :	

4.2 COMMENT EDITING (Cont'd)

NOTE

1. When ATTACH operation has already been completed, this step can be skipped.
2. When depressing **CANCEL** key instead of **CONFIRM** key, comment is not stored and the display prior to the input appears.
3. Continuous Display (Example of Comment Display of Continuous COILS 1 to 9)

PREV
GET
NEXT

Move the cursor to the bottom of extended comment area to display symbol or comment of COIL "1."

Then depress

PREV
GET
NEXT

 key 8 times.

SHIFT

 +

PREV
GET
NEXT

Move the cursor to the top of extended comment area to display symbol or comment of COIL "9."

Then depress

SHIFT

 +

PREV
GET
NEXT

 keys 8 times simultaneously.

4. In case of register or network, labels

WRITE
SYMBOL

DELETE
SYMBOL

 are not displayed.
5. In case of monitor mode, labels

WRITE
SYMBOL

DELETE
SYMBOL

WRITE
COMMENT

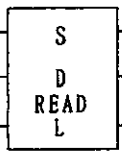

DELETE
COMMENT

 are not displayed.

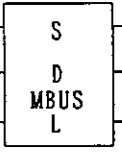
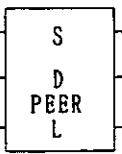
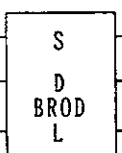
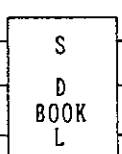
5. REFERENCE LIST OF EXTENDED FUNCTIONS

The following shows function references added by extended functions.

(1) ASCII Control

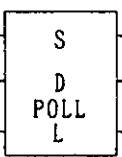
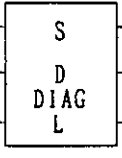
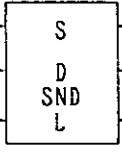
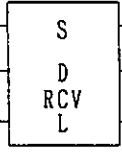
Function		Reference to be Specified					
Symbol	Name	Reference	Ladder Circuit	Action Circuit	Transition Condition Circuit	Subroutine Circuit	
	ASCII Read	S Holding Register	40001-49993	-	-	-	
		D Holding Register	40001-49999	-	-	-	
		L Constant	1-999	-	-	-	
	ASCII Write	S Constant Register	30001-30512	-	-	-	
		S Holding Register	40001-49999	-	-	-	
		D Holding Register	40001-49993	-	-	-	
		L Constant	1-999	-	-	-	

(2) YENET Communication

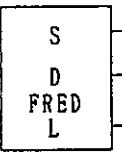
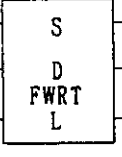
Function		Reference to be Specified					
Symbol	Name	Reference	Ladder Circuit	Action Circuit	Transition Condition Circuit	Subroutine Circuit	
	MEMOBUS Communication	S Holding Register	40001-49991	-	-	-	
		D Holding Register	40001-49999	-	-	-	
		L Constant	1-125	-	-	-	
	Selective Broadcast	S Holding Register	40001-49987	-	-	-	
		D Holding Register	40001-49999	-	-	-	
		L Constant	1-100	-	-	-	
	Broadcast to All Stations	S Holding Register	40001-49994	-	-	-	
		D Holding Register	40001-49999	-	-	-	
		L Constant	1-100	-	-	-	
	Book	S Holding Register	40001-49991	-	-	-	
		D Holding Register	40001-49999	-	-	-	
		L Constant	1-125	-	-	-	

5. REFERENCE LIST OF EXTENDED FUNCTIONS (Cont'd)

(2) YENET Communication (Cont'd)

Function		Reference to be Specified					
Symbol	Name	Reference	Ladder Circuit	Action Circuit	Transition Condition Circuit	Subroutine Circuit	
	POLL	S Holding Register	40001-49994	-	-	-	
		D Holding Register	40001-49999	-	-	-	
		L Constant	1-125	-	-	-	
	Read Diagnosis	S Holding Register	40001-49988	-	-	-	
		D Holding Register	40001-49999	-	-	-	
		L Constant	1	-	-	-	
	Data Send	S Holding Register	40001-49995	-	-	-	
		D Holding Register	40001-49999	-	-	-	
		L Constant	1-250	-	-	-	
	Data Receive	S Holding Register	40001-49994	-	-	-	
		D Holding Register	40001-49999	-	-	-	
		L Constant	1-250	-	-	-	

(3) Extension Memory

Function		Reference to be Specified					
Symbol	Name	Reference	Ladder Circuit	Action Circuit	Transition Condition Circuit	Subroutine Circuit	
	File Read	S	Holding Register	40001-49999	40001-49999	40001-49999	40001-49999
			Link Register	R0001-R1024	R0001-R1024	R0001-R1024	R0001-R1024
		D	Holding Register	40001-49999	40001-49999	40001-49999	40001-49999
			Link Register	R0001-R1024	R0001-R1024	R0001-R1024	R0001-R1024
		L	Constant	1-100	1-100	1-100	1-100
	File Write	S	Holding Register	40001-49999	40001-49999	40001-49999	40001-49999
			Link Register	R0001-R1024	R0001-R1024	R0001-R1024	R0001-R1024
		D	Holding Register	40001-49999	40001-49999	40001-49999	40001-49999
			Link Register	R0001-R1024	R0001-R1024	R0001-R1024	R0001-R1024
		L	Constant	1-100	1-100	1-100	1-100

6. PROGRAMMING FUNCTION LIST

The following shows the programming functions to be used by each of five models of Memocon-SC GL60S.

Programming Function List

○ : Possible
 × : Impossible

	Name	Model					User Program			
		S	S0	S1	S2	S3	Ladder Circuit	Action Circuit	Transition Condition Circuit	Subroutine Circuit
Relay	NO contact	○	○	○	○	○	○	○	○	○
	NC contact	○	○	○	○	○	○	○	○	○
	Transitional Contact (OFF to ON)	○	○	○	○	○	○	○	○	○
	Transitional Contact (ON to OFF)	○	○	○	○	○	○	○	○	○
	Horizontal Shunt	○	○	○	○	○	○	○	○	○
	Vertical Shunt	○	○	○	○	○	○	○	○	○
	Coil	○	○	○	○	○	○	○	×	○
	Link Coil	○	○	○	○	○	○	○	×	○
	Latched Coil	○	○	○	○	○	○	○	○	○
	Stepping Coil	○	○	○	○	○	×	×	○	×
Timer	T1.0	○	○	○	○	○	○	○	○	○
	T0.1	○	○	○	○	○	○	○	○	○
	T.01	○	○	○	○	○	○	○	○	○
Counter	UCTR	○	○	○	○	○	○	○	○	○
	DCTR	○	○	○	○	○	○	○	○	○
Arithmetic	ADD	○	○	○	○	○	○	○	○	○
	SUB	○	○	○	○	○	○	○	○	○
	MUL	○	○	○	○	○	○	○	○	○
	DIV	○	○	○	○	○	○	○	○	○
	DADD	○	○	○	○	○	○	○	○	○
	DSUB	○	○	○	○	○	○	○	○	○
	DMUL	○	○	○	○	○	○	○	○	○
Signed Arithmetic	DDIV	○	○	○	○	○	○	○	○	○
	SADD	○	○	○	○	○	○	○	○	○
	SSUB	○	○	○	○	○	○	○	○	○
	SMUL	○	○	○	○	○	○	○	○	○
	SDIV	○	○	○	○	○	○	○	○	○
	SDAD	○	○	○	○	○	○	○	○	○
Square Root	SDSB	○	○	○	○	○	○	○	○	○
	SQRT	○	○	○	○	○	○	○	○	○
Trigonometric Function	DSQR	○	○	○	○	○	○	○	○	○
	SIN	○	○	○	○	○	○	○	○	○
	COS	○	○	○	○	○	○	○	○	○

6. PROGRAMMING FUNCTION LIST (Cont'd)

Programming Function List (Cont'd)

○ : Possible
 X : Impossible

	Name	Model					User Program			
		S	S0	S1	S2	S3	Ladder Circuit	Action Circuit	Transition Condition Circuit	Subroutine Circuit
Move	R → T	○	○	○	○	○	○	○	○	○
	T → R	○	○	○	○	○	○	○	○	○
	T → T	○	○	○	○	○	○	○	○	○
	BLKM	○	○	○	○	○	○	○	○	○
	FIN	○	○	○	○	○	○	○	○	○
	FOUT	○	○	○	○	○	○	○	○	○
	SRCH	○	○	○	○	○	○	○	○	○
	STAT	○	○	○	○	○	○	○	○	○
Block Move with Index	TSET	○	○	○	○	○	○	○	○	○
	DIBT	○	○	○	○	○	○	○	○	○
	DIBR	○	○	○	○	○	○	○	○	○
	SIBT	○	○	○	○	○	○	○	○	○
Data Conversion	SIBR	○	○	○	○	○	○	○	○	○
	BIN	○	○	○	○	○	○	○	○	○
	BCD	○	○	○	○	○	○	○	○	○
	SWAP	○	○	○	○	○	○	○	○	○
	SORT	○	○	○	○	○	○	○	○	○
	BYSL	○	○	○	○	○	○	○	○	○
	BYCM	○	○	○	○	○	○	○	○	○
Matrix	BADD	○	○	○	○	○	○	○	○	○
	AND	○	○	○	○	○	○	○	○	○
	OR	○	○	○	○	○	○	○	○	○
	XOR	○	○	○	○	○	○	○	○	○
	COMP	○	○	○	○	○	○	○	○	○
	CMPR	○	○	○	○	○	○	○	○	○
	MBIT	○	○	○	○	○	○	○	○	○
	SENS	○	○	○	○	○	○	○	○	○
	BROT	○	○	○	○	○	○	○	○	○
	MROT	○	○	○	○	○	○	○	○	○
ASCII	TWST	○	○	○	○	○	○	○	○	○
	BCNT	○	○	○	○	○	○	○	○	○
	SKP	○	○	○	○	○	○	○	○	○
	READ	X	X	○	○	○	○	X	X	X
	WRIT	X	X	○	○	○	○	X	X	X
	COMM	○	○	○	○	○	○	X	X	X
	GXX (Subroutine)	○	○	○	○	○	○	X	X	X

Programming Function List (Cont'd)

○ : Possible
 × : Impossible

	Name	Model					User Program			
		S	S0	S1	S2	S3	Ladder Circuit	Action Circuit	Transition Condition Circuit	Subroutine Circuit
YENET	MBUS	×	×	×	○	○	○	×	×	×
	PEER	×	×	×	○	○	○	×	×	×
	BROD	×	×	×	○	○	○	×	×	×
	BOOK	×	×	×	○	○	○	×	×	×
	POLL	×	×	×	○	○	○	×	×	×
	DIAG	×	×	×	○	○	○	×	×	×
	SND	×	×	×	○	○	○	×	×	×
	RCV	×	×	×	○	○	○	×	×	×
Expanded Memory	FRED	×	×	×	×	○	○	○	○	○
	FWRT	×	×	×	×	○	○	○	○	○

7. PROCESSING TIME OF EXTENDED FUNCTIONS

Processing Time of Elements

Function	Symbol	Processing Time (μs)		Remarks
		Non Execution	Execution	
Read	READ	25	69	
Write	WRIT	25	69	
MEMOBUS COMMUNICATION	MBUS	25	100	
Selective Broadcast	PEER	25	100	
Broadcast to All Stations	BROD	25	100	
Book	BOOK	25	100	
Poll	POLL	25	100	
Node Diagnosis	DIAG	25	100	
Data Send	SND	25	100	
Data Receive	RCV	25	100	
File Read	FRED	25	$66 + 1.75 * n$	$(1 \leq n \leq 100)$
File Write	FWRT	25	$66 + 1.75 * n$	$(1 \leq n \leq 100)$

Note:

1. "n" shows table size.
2. The data given above simply provide you with a basis for calculating processing time.

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