

MELSECQ ACTIVEX CONTROL

FOR MITSUBISHI Q SERIES SERIAL COMMUNICATION

USER MANUAL

April,2003

CONTENTS

1. General Description.....	4
2. Specification and Setting.....	5
2.1 Device and range supported.	5
2.2 Module Setting	6
2.2.1 QJ71C24 / QJ71C24-R2	6
2.2.2 A1SJ71QC24[N] [-R2]	7
3. Main Property of the Control	8
ComPort : Integer	8
PortOpen : Boolean	8
Setting : String	8
SumCheck : Boolean	8
Timeout : Integer	8
StationNo : Integer	9
Network : Integer Default =0	9
PCNumber : Integer Default =255	9
RqstDestMdIO : Integer	10
RqstDestMdSta : Integer	10
PLCX(Index as Integer) : Boolean, Readonly	11
PLCY(Index as Integer) : Boolean, Readonly	11
PLCM(Index as Integer) : Boolean, Readonly	11
PLCB(Index as Integer) : Boolean, Readonly	11
PLCF(Index as Integer) : Boolean, Readonly	12
PLCL(Index as Integer) : Boolean, Readonly	12
PLCS(Index as Integer) : Boolean, Readonly	12
PLCSB(Index as Integer) : Boolean, Readonly	13
PLCSM(Index as Integer) : Boolean, Readonly	13
PLCD(Index as Integer) : Integer, Readonly	14
PLCW(Index as Integer) : Integer, Readonly	14
PLCZR(Index as Integer) : Integer, Readonly	14
PLCSD(Index as Integer) : Integer, Readonly	14
PLCSW(Index as Integer) : Integer, Readonly	15
PLCType : Boolean	15
4. Main Method of the Control.....	16
ReadX(start as Integer, length as Integer) : Integer	16
ReadY(start as Integer, length as Integer) : Integer	16
ReadM(start as Integer, length as Integer) : Integer	16
ReadB(start as Integer, length as Integer) : Integer	16
ReadSB(start as Integer, length as Integer) : Integer	17
ReadSM(start as Integer, length as Integer) : Integer	17
ReadL(start as Integer, length as Integer) : Integer	17
ReadF(start as Integer, length as Integer) : Integer.....	17
ReadS (start as Integer, length as Integer) : Integer.....	18
ReadD(start as Integer, length as Integer) : Integer	18

ReadW(start as Integer, length as Integer) : Integer	18
ReadZR(start as Integer, length as Integer) : Integer	18
ReadSD(start as Integer, length as Integer) : Integer	19
ReadSW(start as Integer, length as Integer) : Integer	19
SetY(address as Integer) : Integer	19
ResetY(address as Integer) : Integer	19
SetM(address as Integer) : Integer	19
ResetM(address as Integer) : Integer	19
SetB(address as Integer) : Integer	20
ResetB(address as Integer) : Integer	20
SetF(address as Integer) : Integer	20
ResetF(address as Integer) : Integer	20
SetS(address as Integer) : Integer	20
ResetS(address as Integer) : Integer	20
SetL(address as Integer) : Integer	20
ResetL(address as Integer) : Integer	21
WriteD(address as Integer, value as Integer) : Integer	21
WriteW(address as Integer, value as Integer) : Integer	21
WriteZR(address as Integer, value as Integer) : Integer	21
WriteBlock(Device\$, Points as Integer, iData() as Integer) : Integer	21
RemoteRun([Mode = 1] as Integer, [ClearMode = 1] as Integer) : Integer	22
RemoteStop([Mode = 1] as Integer) : Integer	22
RemoteReset([Mode = 1] as Integer) : Integer	22
5. Events of the Control	23
Melsecout (Result as string) : Events	23

1. General Description

MELSECQ.OCX is an ActiveX control to communication with Mitsubishi QnA series and Q series PLC through MC Protocol(Format5, Binary). With the ActiveX control, you can read data from, write data to Mitsubishi PLC very easily using ActiveX container such as Microsoft Visual Basic, etc. Since the Binary mode is used, MELSECQ.OCX can achieve about 2 times faster than that of ASCII. Still you can use the same setting both for communication(With sumcheck on) and for programming through GX-Developer.

MELSECQ.OCX fully supports all MELSEC network and multiple CPU system(up to four CPU) in Q high performance mode.

In order to communicate with the PLC, different communication module is needed for different PLC.

PLC Type	Communication module Needed	Remark
QnAS	A1SJ71QC24 A1SJ71QC24-R2 A1SJ71QC24N	
QnA	AJ71QC24 AJ71QC24N	
Q	QJ71C24 QJ71C24-R2	

In order to use the control, you need to register the software, otherwise you can only use the control in one hour.

To register the control, uncheck the "DEMO" checkbox in "About" window, email the System ID and Username to allen@syslink.com.cn, After we received the register fee, you will get the register code, type in the register code you received, click the "Register" button, then you can use the control without limitation.

2. Specification and Setting

2.1 Device and range supported.

	Device Range		Description
	Default Setting	Max Range	
X	0 – 1FFFH	0 – 1FFFH	Read only
Y	0 – 1FFFH	0 – 1FFFH	
M	0 – 8191	0 – 20000	
B	0 – 1FFFH	0 – 1FFFH	
L	0 – 8191	0 – 8191	
F	0 – 2047	0 – 2047	
S	0 – 8191	0 – 8191	
SM	0 – 2047	0 – 2047	Read only
SB	0 – 7FFH	0 – 7FFH	Read only
D	0 – 12287	0 – 20000	
W	0 – 1FFFH	0 – 4E20H	
ZR	0 - 32767	0 - 64000	Need Memory card in QnA(S) Max 32767 without memory card in Q PLC
SD	0 – 2047	0 – 2047	Read only
SW	0 – 7FFH	0 – 7FFH	Read only

In order to read data more efficacious, when read the bit device, the “MELSECQ.OCX” read these device such as X, Y, B and M in word Unit. Limited by the protocol, max length to read bit device and word device is 480 word.

And the format of protocol supported is Format 5, Binary mode.

2.2 Module Setting

2.2.1 QJ71C24 / QJ71C24-R2

Since there is no hardware switch on Q series RS232/422/485 communication module, all the setting is through GX-Developer. To start the setting follow the procedure:

[GX -Developer] – [PLC Parameter] –[I/O Assignment setting] – [Switch setting]

Switch number	Description	
Switch 1	b15 – b08: CH1 Baud rate	b07 – b00: CH1 transmission setting
Switch 2	CH1 Protocol	
Switch 3	b15 – b08: CH2 Baud rate	b07 – b00: CH2 transmission setting
Switch 4	CH2 Protocol	
Switch 5	Station Number	

Baud rate	b15 – b08	Baud rate	b15 – b08	Bit	OFF 0	ON 1
50	0FH	19200	07H	B0:	IND.	LINK
300	00H	28800	08H	B1: Data Bit	7	8
600	01H	38400	09H	B2: Parity Bit	NO	YES
1200	02H	57600	0AH	B3: Odd/Even	ODD	EVEN
2400	03H	115200	0BH	B4: Stop Bit	1	2
4800	04H	-	-	B5: Sum Check	NO	YES
9600	05H	-	-	B6: w during run	NO	YES
14400	06H	-	-	B7: Editable	NO	YES

The blue color is the default value. **9600,N,8,1** SW1(SW3) = **05F2H**

The protocol of the channel selected should be set to **05H**.

For detail setting information please refer “Q Corresponding Serial Communication Module User’s Manual Basic” and “GX-Developer operating manual”.

After the switch setting is write to PLC, please reset the PLC to make the setting effective.

2.2.2 A1SJ71QC24[N][R2]

The setting of A1SJ71QC24, A1SJ71QC24N, A1SJ71QC24-R2 is through the DIP switch on the module, see following table.

Baud rate	SW9	SW10	SW11	SW12	Bit	OFF 0	ON 1
300	OFF	OFF	OFF	OFF	SW1:	IND.	LINK
600	ON	OFF	OFF	OFF	SW2: Data Bit	7	8
1200	OFF	ON	OFF	OFF	SW3: Parity Bit	NO	YES
2400	ON	ON	OFF	OFF	SW4: Odd/Even	ODD	EVEN
4800	OFF	OFF	ON	OFF	SW5: Stop Bit	1	2
9600	ON	OFF	ON	OFF	SW6: Sum Check	NO	YES
19200	OFF	OFF	OFF	OFF	SW7: w during run	N0	YES
38400	OFF	ON	ON	OFF	SW8: Editable	N0	YES
14400	ON	ON	ON	OFF			
28800	ON	OFF	OFF	ON			
57600	OFF	ON	OFF	ON			
115200	ON	ON	OFF	ON	MODE		6

The blue color is the default value. **9600,N,8,1**

The mode of the channel selected should be set to **05**.

For detail setting information please refer “A1SJ71QC24/AJ71QC24 Serial Communication Module User’s Manual” and “GX-Developer operating manual”.

After the switch setting changed, please reset the PLC to make the setting effective.

3. Main Property of the Control

ComPort : Integer

Description Set or return the communication port.

Example

```
MELSECQ1.ComPort = 1
```

PortOpen : Boolean

Description Set or return the status of the computer the com port specified by the property Commport.

Example

```
MELSECQ1.PortOpen = True
```

Above code open the com port specified by the ComPort Property. Be sure to open the port before read from or write data to PLC.

Setting : String

Description Set or return the setting of the computer the com port specified by the property Commport, such as baud rate, data bit, stop bit and parity bit. The default value is 9600, N, 8,1

Example

```
MELSECQ1.Setting = "9600,N,8,1"
```

SumCheck : Boolean

Description Set if add the sum check or not when communicating with PLC. Be sure to make the same setting between the control and the PLC communication module.

Example

```
MELSECQ1.SumCheck = True
```

If you want to use the same for programming through GX-Developer, set the sumcheck to true.

Timeout : Integer

Description Set timeout time, unit is second.

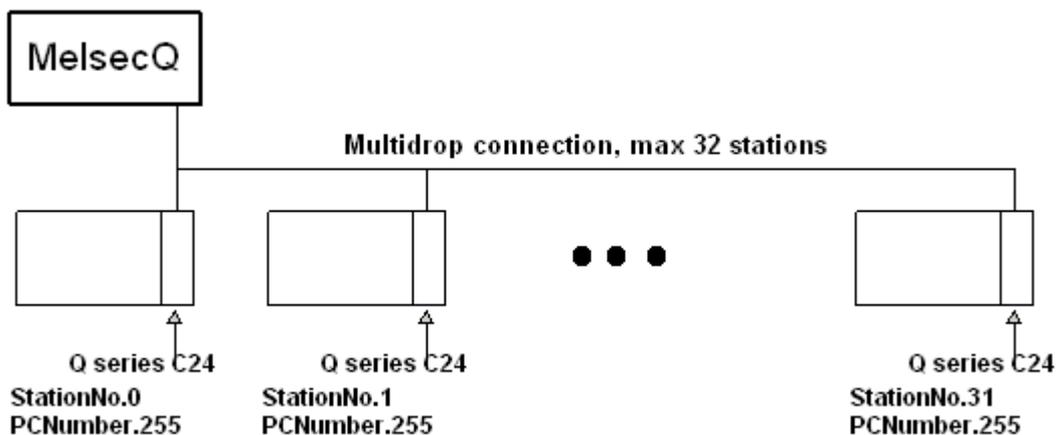
Example

```
MELSECQ1.Timeout = 2
```

Station number, network number, PC number, Request Destination module I/O number and request destination module I/O station identify the route until the destination station.

StationNo : Integer

Description The station number designates to which Q series C24 the MELSECQ will access or through which Q series access is made to other station on MELSECNET/H, MELSECNET/10, using the station number of Q series C24 that has been set with GX Developer. See following configure.



Example

MELSECQ1.StationNumber = 0 [Default =0]

Network : Integer Default =0

PCNumber : Integer Default =255

Description These values identify the number of network system that is passed through last PC number(PLC station number) on the relevant system according to the setting number of the network module when MELSECQ accesses another station's PLC.

- The PLC CPU cannot be accessed through a MELSECNET/H, MELSECNET/10 with a network number from 240 to 255
- When designating the network number FEH in order to access another station through a PLC CPU station incorporated in a network system, set the following parameter in the PLC CPU of the PLC CPU loaded station using GX-Developer. “ Valid module during other station access” setting: Sets the module in MNET/10H Ethernet number setting through an external device accesses another station.

See following table.

	Network number	PC number
Local Station	00H	FFH
Multidrop connection station	00H	FFH
Control station on MELSECNET/10H (QC24 installed on normal station)	01H – EFH 1 – 239 (Access station network number)	7DH:Designated control station 7EH:Current control station
Remote master station on MELSECNET/H (QC24 on remote I/O station)		01H-40H(1 to 64) Access station number
Station on MELSECNET/10H		
Pass through the network module set In "valid module during other station access"	FEH 254	01H-40H(1 to 64)
Multidrop connection station via MELSECNET/10H connection station	01H – EFH(1 - 239) (network number pass through last)	01H-40H(1 to 64) station number pass through last

RqstDestMdIO : Integer**Request Destination Module I/O number****RqstDestMdSta : Integer****Request Destination Module Station Number**

Description Designate the connection source PLC CPU and access destination PLC CPU of the Multidrop connection when an external device(MELSECQ) accesses another station's PLC through a network system and Multidrop connection PLC CPU.

The request destination module station I/O number designates the Q series C24 to be accessed according to the station number of Q series C24 in the settings.

See following table.

MELSECQ access station	Request destination module I/O number
Control CPU including single CPU system	03FFH
PLC No.1	03E0H
PLC No.2	03E1H
PLC No.3	03E2H
PLC No.4	03E3H
Station on Multidrop connection Conform to the above when accessing the PLC of the MELSECNET/10H connection station passed through last	0000H-01FFH

MELSECQ access station	Request destination module I/O station
Station other than station below	00H
Station on Multidrop connection Conform to the above when accessing the PLC of the MELSECNET/10H connection station passed through last	03E0H

PLCX(Index as Integer) : Boolean, Readonly

Description Return the value of PLC INPUT signal X. Before its value is available, be sure to use Method **ReadX** to read the data.

Example

```
MELSECQ1.ReadX 0, 3  
X0 = MELSECQ1.PLCX(0)  
X1F = MELSECQ1.PLCX(&H1F)
```

...

The first line read the PLC bit device X0 to X02F(3 word = 3 X 16 = 48 bits) and refresh the array MELSECQ1.PLCX(), the line 2 and 3 is the way to use the data

PLCY(Index as Integer) : Boolean, Readonly

Description Return the value of PLC output signal Y. Before its value is available, be sure to use Method **ReadY** to read the data.

Example

```
MELSECQ1.ReadY &H10, 1  
Y10 = MELSECQ1.PLCY(&H10)  
Y1F = MELSECQ1.PLCY(&H1F)
```

...

The first line read the PLC bit device Y10 to Y1F(1 word = 16 bits) and refresh the array MELSECQ1.PLCY(), the line 2 and 3 is the way to use the data

PLCM(Index as Integer) : Boolean, Readonly

Description Return the value of PLC M device . Before its value is available, be sure to use Method **ReadM** to read the data.

Example

```
MELSECQ1.ReadM 0, 3  
M0 = MELSECQ1.PLCM(0)  
M1 = MELSECQ1.PLCM(1)
```

...

The first line read the PLC bit device M0 to M47(3 word = 3 X 16 = 48 bits) and refresh the array MELSECQ1.PLCM(), the line 2 and 3 is the way to use the data.

PLCB(Index as Integer) : Boolean, Readonly

Description Return the value of PLC B device . Before its value is available, be sure to use Method **ReadB** to read the data.

Example

```
MELSECQ1.ReadB 0, 3  
B0 = MELSECQ1.PLCB(0)  
B1 = MELSECQ1.PLCB(1)
```

The first line read the PLC bit device B0 to B2F(3 word = 3 X 16 = 48 bits) and refresh the array MELSECQ1.PLCB(), the line 2 and 3 is the way to use the data.

PLCF(Index as Integer) : Boolean, Readonly

Description Return the value of PLC F device . Before its value is available, be sure to use Method **ReadF** to read the data.

Example

MELSECQ1.ReadF 0, 3

F0 = MELSECQ1.PLCF(0)

F1 = MELSECQ1.PLCF(1)

...

The first line read the PLC bit device F0 to F47(3 word = 3 X 16 = 48 bits) and refresh the array MELSECQ1.PLCF(), the line 2 and 3 is the way to use the data.

PLCL(Index as Integer) : Boolean, Readonly

Description Return the value of PLC L device . Before its value is available, be sure to use Method **ReadL** to read the data.

Example

MELSECQ1.ReadL 0, 3

L0 = MELSECQ1.PLCL(0)

L1 = MELSECQ1.PLCL(1)

...

The first line read the PLC bit device L0 to L47(3 word = 3 X 16 = 48 bits) and refresh the array MELSECQ1.PLCL(), the line 2 and 3 is the way to use the data.

PLCS(Index as Integer) : Boolean, Readonly

Description Return the value of PLC S device . Before its value is available, be sure to use Method **ReadS** to read the data.

Example

MELSECQ1.ReadS 0, 3

S0 = MELSECQ1.PLCS(0)

S1 = MELSECQ1.PLCS(1)

...

The first line read the PLC bit device S0 to S47(3 word = 3 X 16 = 48 bits) and refresh the array MELSECQ1.PLCS(), the line 2 and 3 is the way to use the data.

PLCSB(Index as Integer) : Boolean, Readonly

Description Return the value of PLC SB device . Before its value is available, be sure to use Method **ReadSB** to read the data.

Example

```
MELSECQ1.ReadSB 0, 3
```

```
SB0 = MELSECQ1.PLCSB(0)
```

```
SB1 = MELSECQ1.PLCSB(1)
```

...

The first line read the PLC bit device SB0 to SB2F(3 word = 3 X 16 = 48 bits) and refresh the array MELSECQ1.PLCSB(), the line 2 and 3 is the way to use the data.

PLCSM(Index as Integer) : Boolean, Readonly

Description Return the value of PLC SM device . Before its value is available, be sure to use Method **ReadSM** to read the data.

Example

```
MELSECQ1.ReadSM 0, 3
```

```
SM0 = MELSECQ1.PLCSM(0)
```

```
SM1 = MELSECQ1.PLCSM(1)
```

...

The first line read the PLC bit device SM0 to SM47(3 word = 3 X 16 = 48 bits) and refresh the array MELSECQ1.PLCSM(), the line 2 and 3 is the way to use the data.

PLCD(Index as Integer) : Integer, Readonly

Description Return the value of PLC data register. Before its value is available, be sure to use Method **ReadD** to read the data.

Example

```
MELSECQ1.ReadD 0, 32  
D0 = MELSECQ1.PLCD(0)  
D1 = MELSECQ1.PLCD(1)
```

...

The first line read the PLC data register D0 to D31, total 32 words, and refresh the array MELSECQ1.PLCD(), the line 2 and 3 is the way to use the data.

PLCW(Index as Integer) : Integer, Readonly

Description Return the value of PLC link register. Before its value is available, be sure to use Method **ReadW** to read the data.

Example

```
MELSECQ1.ReadW 0, 32  
W0 = MELSECQ1.PLCW(0)  
W1 = MELSECQ1.PLCW(1)
```

...

The first line read the PLC data register W0 to W2F, total 32 words, and refresh the array MELSECQ1.PLCW(), the line 2 and 3 is the way to use the data.

PLCZR(Index as Integer) : Integer, Readonly

Description Return the value of PLC file register. Before its value is available, be sure to use Method **ReadZR** to read the data.

Example

```
MELSECQ1.ReadZR 0, 32  
ZR0 = MELSECQ1.PLCZR(0)  
ZR1 = MELSECQ1.PLCZR(1)
```

...

The first line read the PLC file register ZR0 to ZR31, total 32 words, and refresh the array MELSECQ1.PLCZR(), the line 2 and 3 is the way to use the data.

PLCSD(Index as Integer) : Integer, Readonly

Description Return the value of PLC special data register. Before its value is available, be sure to use Method **ReadSD** to read the data.

Example

```
MELSECQ1.ReadSD 0, 32  
SD0 = MELSECQ1.PLCSD(0)  
SD1 = MELSECQ1.PLCSD(1)
```

The first line read the PLC data register SD0 to SD31, total 32 words, and refresh the array MELSECQ1.PLCSW(), the line 2 and 3 is the way to use the data.

PLCSW(Index as Integer) : Integer, Readonly

Description Return the value of PLC special link register. Before its value is available, be sure to use Method **ReadSW** to read the data.

Example

```
MELSECQ1.ReadSW 0, 32  
SW0 = MELSECQ1.PLCSW(0)  
SW1 = MELSECQ1.PLCSW(1)
```

...

The first line read the PLC special link register SW0 to SW2F, total 32 words, and refresh the array MELSECQ1.PLCSW(), the line 2 and 3 is the way to use the data.

PLCType : Boolean

Description Set the PLC Type used

- 0: Q_Fundamental
- 1: Q_HighPerformance

Example

```
MELSECQ1.PLCType = 1, set the PLC type to Q High Performance
```

4. Main Method of the Control

ReadX(start as Integer, length as Integer) : Integer

Description Read bit device X from the address specified by “start”, the length is specified by “length”, length unit is word(16 bits). Return 0 if read successfully, 1 failure.

The start address must be the integer times of 16, for example, 0, 16, 160, &h10, &h20, etc.

Example

MELSECQ1.ReadX &H10, 2

It means Read X10 to X2F, total 2 words or 32 bits.

Be sure to use the method before access the PLCX() value.

ReadY(start as Integer, length as Integer) : Integer

Description Read bit device Y from the address specified by “start”, the length is specified by “length”, length unit is word(16 bits). Return 0 if read successfully, 1 failure.

The start address must be the integer times of 16, for example, 0, 16, 160, &h10, &h20, etc.

Example

MELSECQ1.ReadY &H10, 2

It means Read Y10 to Y2F, total 2 words or 32 bits.

Be sure to use the method before access the PLCY() value.

ReadM(start as Integer, length as Integer) : Integer

Description Read bit device M from the address specified by “start”, the length is specified by “length”, length unit is word(16 bits). Return 0 if read successfully, 1 failure.

Example

MELSECQ1.ReadM 0, 2

It means Read M0 to M31, total 2 words or 32 bits.

Be sure to use the method before access the PLCM() value.

ReadB(start as Integer, length as Integer) : Integer

Description Read bit device B from the address specified by “start”, the length is specified by “length”, length unit is word(16 bits). Return 0 if read successfully, 1 failure.

The start address must be the integer times of 16, for example, 0, 16, 160, &h10, &h20, etc.

Example

MELSECQ1.ReadB &H10, 2

It means Read B10 to B2F, total 2 words or 32 bits.

Be sure to use the method before access the PLCB() value.

ReadSB(start as Integer, length as Integer) : Integer

Description Read bit device SB from the address specified by “start”, the length is specified by “length”, length unit is word(16 bits). Return 0 if read successfully, 1 failure.

The start address must be the integer times of 16, for example, 0, 16, 160, &h10, &h20, etc.

Example

MELSECQ1.ReadSB &H10, 2

It means Read SB10 to SB2F, total 2 words or 32 bits.

Be sure to use the method before access the PLCSB() value.

ReadSM(start as Integer, length as Integer) : Integer

Description Read bit device SM from the address specified by “start”, the length is specified by “length”, length unit is word(16 bits). Return 0 if read successfully, 1 failure.

Example

MELSECQ1.ReadSM 0, 2

It means Read SM0 to SM31, total 2 words or 32 bits.

Be sure to use the method before access the PLCSM() value.

ReadL(start as Integer, length as Integer) : Integer

Description Read bit device L from the address specified by “start”, the length is specified by “length”, length unit is word(16 bits). Return 0 if read successfully, 1 failure.

Example

MELSECQ1.ReadL 0, 2

It means Read L0 to L31, total 2 words or 32 bits.

Be sure to use the method before access the PLCL() value.

ReadF(start as Integer, length as Integer) : Integer

Description Read bit device F from the address specified by “start”, the length is specified by “length”, length unit is word(16 bits). Return 0 if read successfully, 1 failure.

Example

MELSECQ1.ReadF 0, 2

It means Read F0 to F31, total 2 words or 32 bits.

Be sure to use the method before access the PLCF() value.

ReadS (start as Integer, length as Integer) : Integer

Description Read bit device S from the address specified by “start”, the length is specified by “length”, length unit is word(16 bits). Return 0 if read successfully, 1 failure.

Example

MELSECQ1.ReadS 0, 2

It means Read S0 to S31, total 2 words or 32 bits.

Be sure to use the method before access the PLCS() value.

ReadD(start as Integer, length as Integer) : Integer

Description Read data register from the address specified by “start”, the length is specified by “length”. Return 0 if read successfully, 1 failure.

Example

MELSECQ1.ReadD 100, 10

It means Read D100 to D109, total 10 words.

Be sure to use the method before access the PLCD() value.

ReadW(start as Integer, length as Integer) : Integer

Description Read link register from the address specified by “start”, the length is specified by “length”. Return 0 if read successfully, 1 failure.

Example

MELSECQ1.ReadW &H100, 16

It means Read W100 to W10F, total 16 words.

Be sure to use the method before access the PLCW() value.

ReadZR(start as Integer, length as Integer) : Integer

Description Read file register from the address specified by “start”, the length is specified by “length”. Return 0 if read successfully, 1 failure.

Example

MELSECQ1.Readzr 100, 10

It means Read ZR100 to ZR109, total 10 words.

Be sure to use the method before access the PLCZR() value.

ReadSD(start as Integer, length as Integer) : Integer

Description Read special data register from the address specified by “start”, the length is specified by “length”. Return 0 if read successfully, 1 failure.

Example

MELSECQ1.ReadSD 100, 10

It means Read SD100 to SD109, total 10 words.

Be sure to use the method before access the PLCSD() value.

ReadSW(start as Integer, length as Integer) : Integer

Description Read special link register from the address specified by “start”, the length is specified by “length”. Return 0 if read successfully, 1 failure.

Example

MELSECQ1.ReadSW 100, 16

It means Read SW100 to SW10F, total 16 words.

Be sure to use the method before access the PLCSW() value.

SetY(address as Integer) : Integer

Description Set the Y specified by the address to 1. Return 0 if write successfully, 1 failure.

Example

MELSECQ1.SetY(&H30) It means set Y30 to ON

ResetY(address as Integer) : Integer

Description Reset the Y specified by the address to 0. Return 0 if write successfully, 1 failure.

Example

MELSECQ1.ResetY(&H11) It means reset Y11 to OFF

SetM(address as Integer) : Integer

Description Set the M specified by the address to 1. Return 0 if write successfully, 1 failure.

Example

MELSECQ1.SetM(123) It means set M123 to ON

ResetM(address as Integer) : Integer

Description Reset the M specified by the address to 0. Return 0 if write successfully, 1 failure.

Example

MELSECQ1.ResetM(123) It means reset M123 to OFF

SetB(address as Integer) : Integer

Description Set the B specified by the address to 1. Return 0 if write successfully, 1 failure.

Example

MELSECQ1.SetB(&H30) It means set B30 to ON

ResetB(address as Integer) : Integer

Description Reset the B specified by the address to 0. Return 0 if write successfully, 1 failure.

Example

MELSECQ1.ResetB(&H11) It means reset B11 to OFF

SetF(address as Integer) : Integer

Description Set the F specified by the address to 1. Return 0 if write successfully, 1 failure.

Example

MELSECQ1.SetF(123) It means set F123 to ON

ResetF(address as Integer) : Integer

Description Reset the F specified by the address to 0. Return 0 if write successfully, 1 failure.

Example

MELSECQ1.ResetF(123) It means reset F123 to OFF

SetS(address as Integer) : Integer

Description Set the S specified by the address to 1. Return 0 if write successfully, 1 failure.

Example

MELSECQ1.SetS(123) It means set S123 to ON

ResetS(address as Integer) : Integer

Description Reset the S specified by the address to 0. Return 0 if write successfully, 1 failure.

Example

MELSECQ1.ResetS(123) It means reset S123 to OFF

SetL(address as Integer) : Integer

Description Set the L specified by the address to 1. Return 0 if write successfully, 1 failure.

Example

MELSECQ1.SetL(123) It means set L123 to ON

ResetL(address as Integer) : Integer

Description Reset the L specified by the address to 0. Return 0 if write successfully, 1 failure.

Example

MELSECQ1.ResetL(123) It means reset L123 to OFF

WriteD(address as Integer, value as Integer) : Integer

Description Set the data register specified by the address to specified value. Return 0 if write successfully, 1 failure.

Example

Ret = MELSECQ1.WriteD(123,1111) It means set D123 to 1111.

WriteW(address as Integer, value as Integer) : Integer

Description Set the data register specified by the address to specified value. Return 0 if write successfully, 1 failure.

Example

Ret = MELSECQ1.WriteW(&H12B,1111) It means set W12B to 1111.

WriteZR(address as Integer, value as Integer) : Integer

Description Set the data register specified by the address to specified value. Return 0 if write successfully, 1 failure.

Example

Ret = MELSECQ1.WriteZR(123,1111) It means set ZR123 to 1111.

WriteBlock(Device\$, Points as Integer, iData() as Integer) : Integer

Description Write a group of data in the array iData(), quantities = "Points" to the PLC register specified by "Device\$". Return 0 if write successfully, 1 failure.

Example

```
Dim data() as integer
Redim data(20) as integer
For i = 0 to 19
    Data(i) = i
next
ret = WriteBlock("D100", 20, data)
```

Above code write 20 data in data array to D100 to D119.

*The supported "Device\$" is "D", "W", "ZR". The format should be "D200", "W100", "ZR100"
Attention: The address of "W" is hex.*

RemoteRun([Mode = 1] as Integer, [ClearMode = 1] as Integer) : Integer

Description Remote run the CPU. Return 0 if write successfully, 1 failure.

Example

Ret = MELSECQ1.RemoteRun
 Optional Parameter.

Mode

Designated Value	Processing
0001H - Default	Do not executed forcibly. When another external device is issuing a remote STOP/PAUSE command, the Remote RUN / Remote PAUSE is not executed
0003H	Force execution Remote RUN/Remote PAUSE is executed even if another device has issued a remote STOP/PAUSE command (can only be designated in the remote RUN or remote PAUSE status.

Clear Mode

Designated Value	Processing
00H	Do not clear device memory
01H	Clear the device memory outsides the latch range
02H	Clear the device memory including the latch range

RemoteStop([Mode = 1] as Integer) : Integer

Description Remote stop the CPU. Return 0 if write successfully, 1 failure.

Example

Ret = MELSECQ1.Remotestop
 Optional Parameter.
 Mode, default value is 0001H, see above table.

RemoteReset([Mode = 1] as Integer) : Integer

Description Remote reset the CPU. Return 0 if write successfully, 1 failure.

Example

Ret = MELSECQ1.reset
 Optional Parameter.
 Mode, default value is 0001H, see above table.

5. Events of the Control

Melsecout (Result as string) : Events

Description When there is error communicating with the PLC the event will be fired and the Error message will be return.

Example

```
Private Sub MELSECQ1_Melsecout(Result as string)
    MsgBox Result, 64, "Error Message"
End Sub
```

Appendix

If you only get the "MELSECQ.OCX" file instead of setup program, please use following command to register the control to the system.

REGSVR32 C:\Public\MELSECQ.OCX

Suppose "MELSECQ.OCX" is in path "c:\public"

"MELSECQ.OCX" need "MSCOMM32.OCX". Be sure you have the control.

If you have any problem and suggestion while using "MELSECQ.OCX", please do not hesitate to contact allen@syslink.com.cn.