Batch read in bit units (command: 0401)

Read values from devices in bit units.



When accessing any of the following devices, use the device extension specification (subcommand: 008 L).

- · Link direct device
- · Module access device
- CPU buffer memory access device

For the message format for device extension specification, refer to the following section.

Page 438 Read/Write by Device Extension Specification

Message format

The following shows the message format of the request data and response data of the command.

■Request data

Command	Subcommand	Head device	Number of device points
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■Response data

The value of read device is stored in bit units. The data order differs between ASCII code or binary code. (Page 72 Read data, write data)

Data specified by request data

■Command

Frame	ASCII code	Binary code					
4C/3C/4E/3E frame	0 4 0 1 30H, 34H, 30H, 31H	01н , 04н					
2C frame	1 31 _H	_					

■Subcommand

Туре	ASCII code	Binary code				
For MELSEC-Q/L series	0 0 0 1 30H, 30H, 30H, 31H	01н , 00н				
For MELSEC iQ-R series	0 0 0 3 30H, 30H, 30H, 33H	03н , 00н				

For 2C frame, the specification is not required. Functions and specification methods are equivalent to the subcommands for MELSEC-Q/L series.

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■Head device

Specify the head device of the consecutive devices. (FP Page 65 Devices)



The following devices cannot be specified.

- Long timer (contact: LTS, coil: LTC)
- Long retentive timer (contact: LSTS, coil: LSTC)
- Long index register (LZ)
- Page 69 Considerations when accessing long timer, long retentive timer, or long counter
- Page 69 Considerations when accessing long index register

■Number of device points

Specify the number of device points to be read within the following range. (Page 70 Number of device points)

Access target	C24	E71				
		ASCII code	Binary code			
MELSEC iQ-R series module MELSEC iQ-L series module MELSEC-Q/L series module	1 to 7904 points	1 to 3584 points	1 to 7168 points			
MELSEC-QnA series module Module on other station via MELSEC-QnA series network module	1 to 3952 points	1 to 1792 points	1 to 3584 points			
MELSEC-A series module	1 to 256 points	nts				

Communication example

Read values of M100 to M107. (Subcommand: for MELSEC-Q/L series)

■Data communication in ASCII code

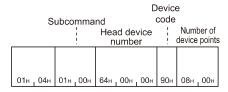
(Request data)

				Subcommand					/ice de						er	Number of device points			
0	4	0	1	0	0	0	1	М	*	0	0	0	1	0	0	0	0	0	8
30н	34н г	30н	31н	30н	30н	30н	31н	4Dн	2Ан	30н	30н	30н	31н	30н	30н	30н	30н	30н	38н

(Response data)

■Data communication in binary code

(Request data)



(Response data)

