

(11) Reading for Sub control output proportional cycle setting value  
 (This item is not available to the MCD-150 and MCD-550 series.)

Command code: R c (52H, 63H)

STX (02H)	No.	R	c	Checksum	ETX (03H)
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Response with data

STX (02H)	@	D	c	Sign	Sub control output proportional cycle setting value	Checksum	ETX (03H)
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Negative acknowledgement (When the communication is abnormally performed.)

NAK	(15H)
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● Command example

When reading the Sub control output proportional cycle setting value.  
 (Instrument number: 0)

STX (02H)	(20H)	R (52H)	c (63H)	2 (32H)	B (42H)	ETX (03H)
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● Response example

When the Sub control output proportional cycle setting value is 15 seconds.

STX (02H)	@ (40H)	D (44H)	c (63H)		0 (30H)	0 (30H)	1 (31H)	5 (35H)	3 (33H)	3 (33H)	ETX (03H)
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15 seconds

- (12) Reading for Sub control output proportional band setting value  
(This item is not available to the MCD-150 and MCD-550 series.)

Command code: R p (52H, 70H)

STX (02H)	No.	R	p	Checksum	ETX (03H)
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Response with data

STX (02H)	@	D	p	Sign	Sub control output proportional band setting value	Checksum	ETX (03H)
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Negative acknowledgement (When the communication is abnormally performed.)

NAK	(15H)
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● Command example

When reading the Sub control output proportional band setting value.  
(Instrument number: 0)

STX (02H)	(20H)	R (52H)	p (70H)	1 (31H)	E (45H)	ETX (03H)
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● Response examples

When the Sub control output proportional band setting value is 1 (1 time).

STX (02H)	@ (40H)	D (44H)	p (70H)		0 (30H)	0 (30H)	0 (30H)	1 (31H)	2 (32H)	B (42H)	ETX (03H)

When the Sub control output proportional band setting value is -7 (1/7 times).

STX (02H)	@ (40H)	D (44H)	p (70H)	- (2DH)	0 (30H)	0 (30H)	0 (30H)	7 (37H)	1 (31H)	8 (38H)	ETX (03H)

(13) Reading for Main control output differential setting value  
 (This item is not available to the MCD-150 and MCD-550 series.)

Command code: R F (52H, 46H)

STX (02H)	No.	R	F	Checksum	ETX (03H)
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Response with data

STX (02H)	@	D	F	Sign	Main control output differential setting value	Checksum	ETX (03H)
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Negative acknowledgement (When the communication is abnormally performed.)

NAK	(15H)
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● Command example

When reading the Main control output differential setting value. (Instrument number: 0)

STX (02H)		R (52H)	F (46H)	4 (34H)	8 (38H)	ETX (03H)
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● Response example

When the Main control output differential setting value is 1.0°C.

STX (02H)	@ (40H)	D (44H)	F (46H)		0 (30H)	0 (30H)	1 (31H)	0 (30H)	5 (35H)	5 (35H)	ETX (03H)
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1.0°C

(14) Reading for Sub control output differential setting value  
 (This item is not available to the MCD-150 and MCD-550 series.)

Command code: R f (52H, 66H)

STX (02H)	No.	R	f	Checksum	ETX (03H)
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Response with data

STX (02H)	@	D	f	Sign	Sub control output differential setting value	Checksum	ETX (03H)
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Negative acknowledgement (When the communication is abnormally performed.)

NAK	(15H)
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● Command example

When reading the Sub control output differential setting value. (Instrument number: 0)

STX (02H)		R	f	2	8	ETX (03H)
	(20H)	(52H)	(66H)	(32H)	(38H)	

● Response example

When the Sub control output differential setting value is 1.0°C.

STX	@	D	f		0	0	1	0	3	5	ETX
(02H)	(40H)	(44H)	(66H)	(20H)	(30H)	(30H)	(31H)	(30H)	(33H)	(35H)	(03H)

1.0°C

(15) Reading for Output high limit setting value

Command code: R U (52H, 55H)

STX (02H)	No.	R	U	Checksum	ETX (03H)
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Response with data

STX (02H)	@	D	U	Sign	Output high limit setting value	Checksum	ETX (03H)
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Negative acknowledgement (When the communication is abnormally performed.)

NAK	(15H)
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● Command example

When reading the Output high limit setting value. (Instrument number: 0)

STX (02H)		R	U	3	9	ETX (03H)
	(20H)	(52H)	(55H)	(33H)	(39H)	

● Response example

When the Output high limit setting value is 90%.

STX	@	D	U		0	0	9	0	3	E	ETX
(02H)	(40H)	(44H)	(55H)	(20H)	(30H)	(30H)	(39H)	(30H)	(33H)	(45H)	(03H)

90%

(16) Reading for Output low limit setting value

Command code: R L (52H, 4CH)

STX (02H)	No.	R	L	Checksum	ETX (03H)
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Response with data

STX (02H)	@	D	L	Sign	Output low limit setting value	Checksum	ETX (03H)
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Negative acknowledgement (When the communication is abnormally performed.)

NAK	(15H)
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● Command example

When reading the Output low limit setting value. (Instrument number: 0)

STX (02H)		R	L	4	2	ETX (03H)
	(20H)	(52H)	(4CH)	(34H)	(32H)	

● Response example

When the Output low limit setting value is 10%.

STX	@	D	L		0	0	1	0	3	E	ETX
(02H)	(40H)	(44H)	(4CH)	(20H)	(30H)	(30H)	(31H)	(30H)	(33H)	(45H)	(03H)

10%

5.4 Action status reading command

(1) Reading for Setting value Lock/Unlock changing status

Command code: R K (52H, 4BH)

STX (02H)	No.	R	K	Checksum	ETX (03H)
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Response with data

STX (02H)	@	D	K	Sign	Setting value Lock/Unlock changing status	Checksum	ETX (03H)
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0000: Unlock  
 0001: Lock mode 1  
 0002: Lock mode 2  
 0003: Lock mode 3

Negative acknowledgement (When the communication is abnormally performed.)

NAK	(15H)
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● Command example

When reading the Lock/Unlock changing status. (Instrument number: 0)

STX (02H)	(20H)	R (52H)	K (4BH)	4 (34H)	3 (33H)	ETX (03H)
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● Response example

When it is the Lock mode 1.

STX (02H)	@ (40H)	D (44H)	K (4BH)	(20H)	0 (30H)	0 (30H)	0 (30H)	1 (31H)	5 (35H)	0 (30H)	ETX (03H)
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Lock mode 1

(2) Reading for Auto/Manual control changing status

Command code: R N (52H, 4EH)

STX (02H)	No.	R	N	Checksum	ETX (03H)
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Response with data

STX (02H)	@	D	N	Sign	Auto/Manual control changing status	Checksum	ETX (03H)
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0000: Automatic control

0001: Manual control

Negative acknowledgement (When the communication is abnormally performed.)

NAK	(15H)
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● Command example

When reading the Auto/Manual control changing status. (Instrument number: 0)

STX (02H)		R (52H)	N (4EH)	4 (34H)	0 (30H)	ETX (03H)
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● Response example

When it is the Automatic control.

STX (02H)	@ (40H)	D (44H)	N (4EH)		0 (30H)	0 (30H)	0 (30H)	0 (30H)	4 (34H)	E (45H)	ETX (03H)
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Automatic control



(3) Reading for Remote/Local setting changing status  
 (This item is not available to the MCD-150, MCD-550, MCR-100 and MCR-200 series.)

Command code: R R (52H, 52H)

STX (02H)	No.	R	R	Checksum	ETX (03H)
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Response with data

STX (02H)	@	D	R	Sign	Remote/Local setting changing status	Checksum	ETX (03H)
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0000: Local setting  
 0001: Remote setting

Negative acknowledgement (When the communication is abnormally performed.)

NAK	(15H)
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● Command example

When reading the Remote/Local setting changing status. (Instrument number: 0)

STX (02H)	(20H)	R (52H)	R (52H)	3 (33H)	C (43H)	ETX (03H)
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● Response example

When it is the Remote setting.

STX (02H)	@ (40H)	D (44H)	R (52H)	(20H)	0 (30H)	0 (30H)	0 (30H)	1 (31H)	4 (34H)	9 (39H)	ETX (03H)
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Remote setting

(4) Reading for Auto-tuning Performance/Cancellation changing status

Command code: R Y (52H, 59H)

STX (02H)	No.	R	Y	Checksum	ETX (03H)
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Response with data

STX (02H)	@	D	Y	Sign	Auto-tuning Performance/Cancellation changing status	Checksum	ETX (03H)
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0000: Auto-tuning cancellation

0001: Auto-tuning performance

Negative acknowledgement (When the communication is abnormally performed.)

NAK	(15H)
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● Command example

When reading the Auto-tuning Performance/Cancellation changing status.  
(Instrument number: 0)

STX (02H)	(20H)	R (52H)	Y (59H)	3 (33H)	5 (35H)	ETX (03H)
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● Response example

When it is the Auto-tuning performance.

STX (02H)	@ (40H)	D (44H)	Y (59H)	(20H)	0 (30H)	0 (30H)	0 (30H)	1 (31H)	4 (34H)	2 (32H)	ETX (03H)
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Auto-tuning performance