

SR10000 Recorder Communication Interface

Please make the following alterations to the User's Manual IM 04P03B01-17E.

Function Upgrades and Versions

The following functions have been added to the SR10000 Recorder.

Firmware Version	Added Functions
1.31	Header printout (/BT1 option)

Please note the addition of the following six commands to chapter 4.

Setting Commands

Command Name	Function	Execution Mode	Administrator	User
VH	Sets the batch number and lot number (/BT1 option).	Run mode	Yes	No
VC	Sets the batch comment (/BT1 option).	Run mode	Yes	No
VP	Turns Start printout/End printout ON/OFF (/BT1 option).	Run mode	Yes	No
VA	Sets the Start printout/End printout action (/BT1 option).	Run mode	Yes	No
VM	Sets the message format (/BT1 option).	Run mode	Yes	No

Basic Setting Commands

Command Name	Function	Execution Mode	Administrator	User
UE	Selects enable/disable for Start printout/End printout and message format (/BT1 option).	Basic Setting mode	Yes	No

VH Sets the batch number and lot number (/BT1 option)

When setting the batch number

Syntax VH p1,p2<terminator>
 p1 BATCH
 p2 Batch number (up to 26 characters)

Query VH[p1]?

Example Set character string Product as a batch number.
 VH BATCH,Product

Description Valid with the header printout (/BT1 option) when set to use Start printout/End printout (see the UE command).

When setting lot number for the 4 digits

Syntax VH p1,p2<terminator>
 p1 LOT
 p2 0000-9999

Query VH[p1]?

Example Set 0001 as the lot number.
 VH LOT,0001

Description Valid with the header printout (/BT1 option) when lot number is set to 4 digits (see the UE command).

When setting lot number for the 6 digits

Syntax VH p1,p2<terminator>
 p1 LOT
 p2 000000-999999

Query VH[p1]?

Example Set 000001 as the lot number.
 VH LOT,000001

Description Valid with the header printout (/BT1 option) when lot number is set to 6 digits (see the UE command).

VC Sets the batch comment (/BT1 option)

Syntax VC p1,p2,p3<terminator>
 p1 Mode selection
 START Start printout
 END End printout
 START2 Start printout 2
 END2 End printout 2
 p2 line number (up to 5)
 p3 Batch comment (up to 32 chars.)

Query VC[p1[,p2]]?

Example Set the string Batch start to the first line of the Start printout batch comment.
 VC START,1,Batch start

Description

- Valid with the header printout (/BT1 option) when set to use Start printout/End printout (see the UE command).
- Start printout 2 and End printout 2 valid when set to use Start printout 2 and End printout 2 (see the UE command).

VP Turns Start printout/End printout ON/OFF (/BT1 option)

Syntax VP p1,p2,p3,p4<terminator>
 p1 Mode selection
 START Start printout
 END End printout
 START2 Start printout 2
 END2 End printout 2
 p2 Batch name printout ON/OFF (ON, OFF)
 p3 Chart speed printout ON/OFF (ON, OFF)
 p4 Date/time printout ON/OFF (ON, OFF)

Query VP[p1]?

Example Turn the Start printout batch name (batch number and lot number) ON, chart speed OFF, and date/time ON.

VP START, ON, OFF, ON

Description

- Valid with the header printout (/BT1 option) when set to use Start printout/End printout (see the UE command).
- Start printout 2 and End printout 2 valid when set to use Start printout 2 and End printout 2 (see the UE command).

VA Sets the Start printout/End printout action (/BT1 option)

When setting Start printout

Syntax VA p1,p2<terminator>

p1 Mode selection

START Start printout

START2 Start printout 2

p2 Feed amount before Start printout (0-50) [mm]

Query VA[p1]?

Example Set feed amount before Start printout to 10 mm.

VA START, 10

Description

- Valid with the header printout (/BT1 option) when set to use Start printout/End printout (see the UE command).
- Start printout 2 valid when set to use Start printout 2 and End printout 2 (see the UE command).

When setting End printout

Syntax VA p1,p2,p3,p4,p5<terminator>

p1 Mode selection

END End printout

END2 End printout 2

p2 Feed amount after End printout (0-50) [mm]

p3 Lot number automatic updating ON/OFF (ON, OFF)

p4 Pen offset compensating recording ejection ON/OFF (ON, OFF)

p5 Select chart speed when ejecting pen offset compensating record.

C.SPEED Chart speed setting

450mm/h Fixed to 450 mm/h

Query VA[p1]?

Example Set feed amount after End printout to 10 mm.

VA END, 10

Description

- Valid with the header printout (/BT1 option) when set to use Start printout/End printout (see the UE command).
- End printout 2 valid when set to use Start printout 2 and End printout 2 (see the UE command).
- P3 valid when lot number is set to 4 or 6 digits (see the UE command).
- P4 valid when POC is set to ON with the pen model (see the UE command).
- P5 is valid when p4 is ON.

VM Sets the message format (/BT1 option)

Syntax VM p1,p2<terminator>

p1 Message number (1-5)

p2 Message format setting (up to 35 chars.)

H:M Hours:minutes (5 characters)

H:M:S Hours:minutes:seconds

(8 characters)

M/D H:M Month/day hours:minutes

(11 characters)

M/D H:M:S Month/day hours:minutes:

seconds (14 characters)

D/M H:M Day/month hours:minutes

(11 characters)

D/M H:M:S Day/month hours:minutes:

seconds (14 characters)

D.M H:M Day.month hours:minutes

(11 characters)

D.M H:M:S Day.month hours:minutes:

seconds (14 characters)

M.D H:M Month.day hours:minutes

(12 characters)

M.D H:M:S Month.day hours:minutes:

seconds (15 characters)

Y/M/D H:M:S Year/month/day hours:

minutes:seconds

(19 characters)

M/D/Y H:M:S Month/day/year:hours:

minutes:seconds

(19 characters)

D/M/Y H:M:S Day/month/year hours:

minutes:seconds

(19 characters)

D.M.Y H:M:S Day.month.year hours:

minutes:seconds

(19 characters)

M.D.Y H:M:S Month/day/year hours:

minutes:seconds

(20 characters)

01 Measured value of CH01

(7 characters)

02 Measured value of CH02

(7 characters)

:

06 Measured value of CH06

(7 characters)

(The valid range from 01-06 depends on the model).

L01 Message 1 character

(1 character)

L02 Message 2 characters

(2 characters)

:

L16 Message 16 characters

(16 characters)

┘ Space (1 character)

Query VM[p1]?

Example Message 1 string: Process-1°C
 Message 1 printout result:
 06/30 10:10 Process-1 134.8°C
 Message format 1:
 VM 1,M/D H:M L09 01L02

Description

- Valid with the header printout (/BT1 option) when set to use message format (see the UE command).
- Prints out in the order for parameters specified by the message format.
- The specified number of characters specified for standard function messages is used, then if a subsequent character string has been set, it is used next. Also, it can only be used once for the message format.
- The parentheses () indicate the number of characters used. Set the message format so that the total number of characters does not exceed the maximum number allowed.

UE Selects enable/disable for Start printout/End printout and message format (/BT1 option)

When using Start printout/End printout

Syntax UE p1,p2,p3,p4<terminator>
 p1 Use of Start printout/End printout (USE)
 p2 Number of digits for lot number (4, 6, NOT)
 p3 Use/Not use Start printout 2/End printout 2 (USE, NOT)
 p4 Use/Not use message format (USE, NOT)

Query UE?

Example Perform Start printout/End printout, set 6 digits for lot number, use Start printout 2/End printout 2 and message format.
 UE USE,6,USE,USE

Description

- Set the lot number using the VH command.
- Set the message format using the VM command.

When not using Start printout/End printout

Syntax UE p1,p2<terminator>
 p1 Start printout/End printout not used (NOT)
 p2 Use/Not use message format (USE, NOT)

Query UE?

Example Use message format but do not use Start printout/End printout.
 UE NOT,USE

Description Set the message format using the VM command.

Page 4-16 See underlined text. XR Sets the remote control input (/R1 option)

Message 5
Priority R_RCD
 Priority to remote recording
 Can be set on products with header printout (/BT1 option).
BatchCMT switch
 Batch comment switching
 Can be set on products with header printout (/BT1 option).

Query XR[p1]?

Page 4-18 See underlined text. UG Shows/Hides setting menu items.

Syntax UG p1,p2,p3,p4,p5,p6,p7,p8,p9
 <terminator>
 p1 RANGE (ON, OFF)
 p2 BIAS (ON, OFF)
 p3 ALARM (ON, OFF)
 p4 UNIT (ON, OFF)
 p5 CHART (ON, OFF)
 p6 AUX (ON, OFF)
 p7 CALIBRATION (ON, OFF) (/CC1 option)
 p8 BATCH NAME (ON, OFF) (/BT1 option)
 p9 BATCH DETAI (ON, OFF) (/BT1 option)

Query UG?

Example Hide the RANGE, BIAS, and ALARM menus.
 UG OFF,OFF,OFF

Description

- Parameter p7 can be specified on models with the calibration correction (/CC1 option).
- Parameters p8 and p9 can be specified on models with the header printout (/BT1 option).

Note
Parameters p7 and higher are skipped when no options are installed.

Page 6-2 Please note the addition of status information. (Underlined) Status information 4

Bit	Name	Description
5	–	
6	<u>Header printing out</u>	<u>Set to “1” only between start of Start printout and end of End printout.</u>
7	–	