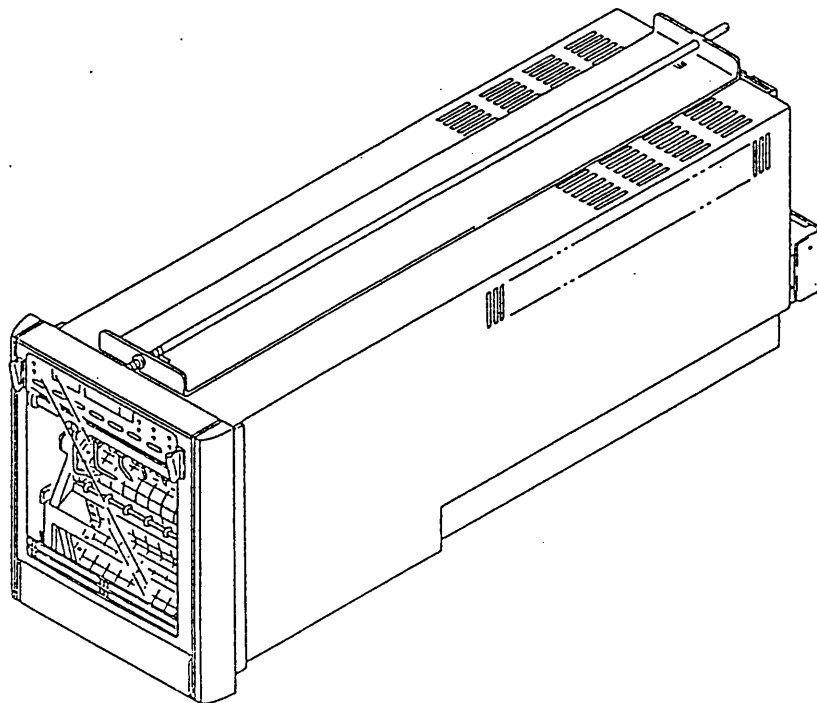
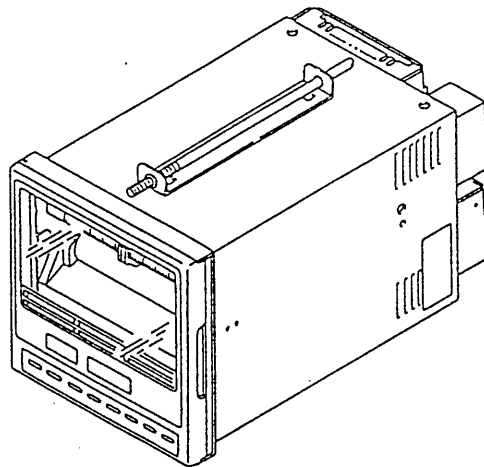


DATA SETTING MANUAL

CONFIDENTIAL



Technical Support Dept.

This is a confidential manual, and published only for use to recover the setting values when they were initialized.

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1. Setting Modes and Their Setting Possible Items

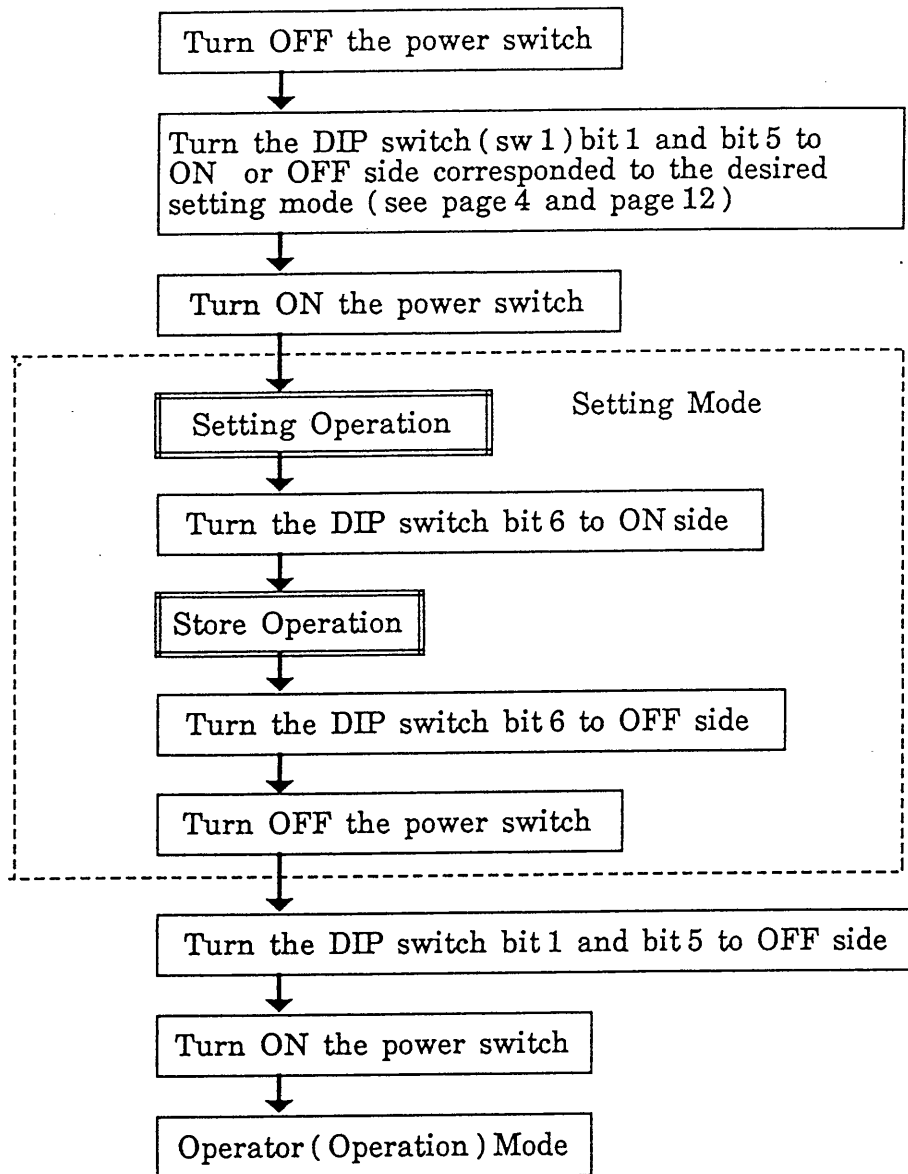
○:Setting Possible △:Partially Possible

Setting Item	Mode of the μ R-F recorder			Mode of the μ R-F recorder		
	Operator	Set Maker	YOKOGAWA2	Operation	Set Maker	YOKOGAWA2
Recording ON/OFF Selection	○			○		
Display Mode Selection	○			○		
Program List Print-Out	○			○		
Chart Feed ON/OFF Selection	○			○		
DATE/TIME Setting	○			○		
Chart Feed Speed Setting	○			○		
RANGE/SPAN Setting		△	○		△	○
Scaling Value Setting		○	○		○	○
Unit Setting		○			○	
DELTA Recording Setting		○	○		○	○
SKIP Setting (when some chamels are used)		○	○		○	○
Alarm Setting	○			○		
Tag Setting	○			○		
Zone Setting		○				
Partial Setting		○				
Message Print-Out Setting (Option)	○			○		
Print Mode Setting		○			○	
Model Setting			○			○
Thermal Unit Slection (°C/°F)			○			○
RJC Selection (ON/OFF)			○			○
Remote Controls Selection			○			○
Zone Recording Selection (ON/OFF)			△			
Partial Recording Selection (ON/OFF)			△			
Manual Print-Out Selection (ON/OFF)						○
Relay Contact Condition Selection (drived/non driven)			○			○

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2. Setting Procedure Flow Chart





Use the following procedure to set items.



CAUTION !! Turn the DIP switch bit 6 to ON side after the power switch has turned ON and prior to the store operation. Also, turn the DIP switch bit 6 to OFF sides after the store operation has finished and prior to the power switch should be turned OFF.

CAUTION !! Turn the DIP switch bit 6 to ON side after the power switch has turned ON and prior to the store operation. Also, turn the DIP switch bit 6 to OFF side after the store operation and prior to the power switch should be turned OFF.

(3) Specification Setting

- ① Press the  key to call up " Specification setting " panel.
(See page 6)
- ② Pressing the  key to locate the cursor (flashing position) to the desired column.
- ③ Press the  key to set the desired data.
- ④ Press the  key to store the data.

Specification setting for μ R-T recorder

6	0	1	C	0	0	0	
/	1	2	3	4	5	6	7

- 1: Model setting
- 01: 1-pen Model (Model 4261,4271)
 - 02: 2-pen Model (Model 4262,4272)
 - 03: 3-pen Model (Model 4263,4273)
 - 06: 6-point printing Model (Model 4266,4276)
 - 12: 12-point printing Model (Model 4277)

- 2: Thermal Unit Selection
- 0: °C
 - 1: °F
- 3: RJC Selection
- 0: OFF
 - 1: ON
- 4: Remote Controls Selection

Select the code shown in the right table, corresponds to the setting array of the bit 1 to bit 4.

when each bits are set to 1, they mean;

bit code	4	3	2	1
0	0	0	0	0
1	0	0	0	1
2	0	0	1	0
3	0	0	1	1
4	0	1	0	0
5	0	1	0	1
6	0	1	1	0
8	1	0	0	0
9	1	0	0	1
A	1	0	1	0
C	1	1	0	0









- bit 4: Recording can be started or stopped (by external contact signal)
- bit 3: The chart feed speed is changed from the 1st set speed to the 2nd set speed.
- bit 2: List printing is executed.
- bit 1: Message Printing is executed.

- 5: Zone Recording Selection
- 0 : OFF (μ R180T)
 - 1 : ON

- 6: Partial Recording Selection
- 0 : OFF (μ R180T)
 - 1 : ON

- 7: Relay Contact Condition Selection
- 0 : drive
 - 1 : non drive

(4) Measurement and Recording Setting

- ① Press the  key to call up the " Range Code Setting " panel.
(See page 9)
- ② Pressing the  key to locates the cursor (flashing position) to the desired column.
- ③ Press the  key to set the desired data. (See page 9)
- ④ Press the  key to store the CH No. and it's mode and range code.
- ⑤ Display advances to the " Left-end Data Setting " panel.
- ⑥ Press the  and  key to set the left-end data.
- ⑦ Press the  key to store the data.
- ⑧ Display advances to the " Right-end Data Setting " panel.
- ⑨ As in the same method described in the step ⑥ and ⑦, set the right-end data.
- ⑩ If the range code is either of the 0×, 1× or 2×, it advances to the " Range Code Setting " panel. (step ①)
Measurement and Recording Setting has completed per one channel, and you would change the CH No. and repeat if necessary.
If the range code is either of the 3× or 4×, it advances to the " Left-end Scale Setting " panel. (step ⑪)
- ⑪ Locate the cursor (flashing position) on the " F " position, and then press the  key to move the decimal point.
- ⑫ As in the same method described in the step ⑥ and ⑦, set the left-end scale data.
- ⑬ It advances to the " Right-end Scale Setting " panel.
- ⑭ As in the same method described in the step ⑥ and ⑦, set the right-end scale data.
- ⑮ Measurement and Recording Setting has completed per one channel, and you would change the CH No. and repeat if necessary.

1		
---	--	--

/CH No.

	A		2	0
--	---	--	---	---

MODE	RANGE CODE
	0X: DC Voltage 1X: TC 2X: RTD 3X: Linear Scaling 4X: SQR
BASE CHANNEL	
A : NORMAL d : DELTA — : SKIP	

1		┌
---	--	---

—	1	0	0	0
---	---	---	---	---

LEFT-END DATA

1		┐
---	--	---

0	1	0	0	0
---	---	---	---	---

RIGHT-END DATA

1		┌.
---	--	----

—	0	0	0	0
---	---	---	---	---

LEFT-END SCALE

1		┐.
---	--	----

1	0	0	0	0
---	---	---	---	---

RIGHT-END SCALE

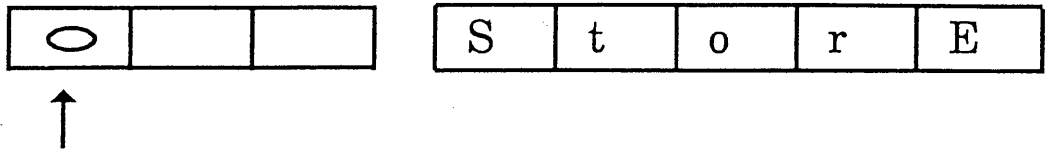
Table RANGE CODE

Input Type	Range Code	Measuring Range
DC	00	-20.00 to 20.00 mV
	01	-200.00 to 200.00 mV
	02	-2.000 to 2.000 V
DC (linear scaling)	30	-20.00 to 20.00 mV
	31	-200.0 to 200.0 mV
	32	-2.000 to 2.000 V
DC (square root scaling)	40	-20.00 to 20.00 mV
	41	-2000.0 to 200.0 mV
	42	-2.000 to 2.000 V
TC	10	Type R 0 to 1760°C 32 to 3200°F
	11	Type S 0 to 1760°C 32 to 3200°F
	12	Type B 400 to 1820°C 752 to 3308°F
	13	Type K -200 to 1370°C -328 to 2498°F
	14	Type E -200 to 800°C -328 to 1472°F
	15	Type J -200 to 1100°C -328 to 2012°F
	16	Type T -200 to 400°C -328 to 752°F
	17	Type N 0 to 1300°C 32 to 2372°F
	18	Type W 0 to 2315°C 32 to 4200°F
	19	Type L -200 to 900°C -328 to 1652°F
	1A	Type U -200 to 400°C -328 to 752°F
DC	03	-6.000 to 6.000 V
	04	-20.00 to 20.00 V
	05	-50.00 to 50.00 V
DC (linear scaling)	33	-6.000 to 6.000 V
	34	-20.00 to 20.00 V
	35	-50.00 to 50.00 V
DC (square root scaling)	43	-6.000 to 6.000 V
	44	-20.00 to 20.00 V
	45	-50.00 to 50.00 V
RTD	20	Pt100Ω (JIS) -200 to 550°C -328 to 1022°F
	21	Pt100Ω (DIN) -200 to 550°C -328 to 1022°F

(5) Write the setting data into the NVRAM.

- 1 Press the SET key to call up the "Store" panel.
- 2 Press the ENT key to write the setting data into the NVRAM.

STORE (NVRAM)



When the write action has completed, the flashing state changes to continuous light up.

(If the DIP switch bit 6 has setted to OFF side in this case, setting data has not written into the NVRAM, though the display behaves as it were written into the NVRAM)

CAUTION !! Turn the DIP switch bit 6 to OFF side before the power switch should be turned OFF.

CAUTION !! Turn the DIP switch bit 6 to ON side after the power switch has turned ON and prior to the store operation. Also, turn the DIP switch bit 6 to OFF side after the store operation and prior to the power switch should be turned OFF.

(3) Measurement and Recording Setting.

Setting method is equal to the YOKOGAWA 2 Mode.

But, in the Set Maker Mode, you can't change the Range Code.

1			A		2	0	
/ CH No.			MODE		RANGE CODE		
			A : NORMAL		(You can't change this area)		
			d : DELTA				
			— : SKIP				
1		┌	—	1	0	0	0
			LEFT-END DATA				
1		┐	0	1	0	0	0
			RIGHT-END DATA				
1		┌.	—	0	0	0	0
			LEFT-END SCALE				
1		┐.	1	0	0	0	0
			RIGHT-END SCALE				

(4) Zone Recording Setting

0	1		┌			0	1	0
CH No.				LEFT OF ZONE				

0	1		└			1	7	0
				RIGHT OF ZONE				

(5) Partial Recording Setting.

0	7		P				4	0	
CH No.			MODE	RECORDING POSITION				1 to 99%	
			P : ON └ : OFF						

0	7		P	0	1	5	0	0
				SETTING VALVE				

(6) Unit Setting

- 1 Press the **SET** key to call up the " Unit Setting " panel.
- 2 Pressing the **↓** key to locates the cursor (flashing position) to the desired column.
- 3 Press the **▲** key to set the desired data.
- 4 Press the **ENT** key to store the 1-st charactor.
- 5 Set and store the remain 5 charactors with same method.





	1		U	A	1	-	7	5
/	CH No.						ASCII CODE	
				CHARACTOR No. 1 to 6				
				CHARACTOR STRINGS No. A to C				

Note) You can set maximum 3 units in the μ R 100 T recorder.
 It corresponds to the character strings A to C.
 If the unit, which you want to set, was already set in the other channel, you should only set the same character strings No, and need not set the character No., and ASCII Code.

Table ASCII CODE

a \ b	2	3	4	5	6	7
0		0	⊙	P	'	p
1	|	|	A	Q	e	q
2	-	2	B	R	b	r
3	#	3	C	S	c	s
4	\$	4	D	T	d	t
5	%	5	E	U	e	u
6	&	6	F	V	f	v
7	'	7	G	W	g	w
8	(	8	H	X	h	x
9	)	9	I	Y	i	y
A	+	:	J	Z	j	z
B	+	;	K	I	k	.
C	,	<	L	Δ	l	Ω
D	-	=	M	l	m	#
E	.	>	N	▽	n	-
F	/	?	O	_	o	U

(7) Print Mode Setting

- 1 Press the  key to call up the "Print Mode Setting" panel.
- 2 Pressing the  key to locates the cursor (flashing position) on the Alarm Print-out select position or the Periodic Print-out select position.
- 3 Press the  key to select the print mode.
- 4 Press the  key to store the data.

P	r	t
---	---	---

A	1		r	0
---	---	--	---	---

ALARM PRINTOUT
0 : OFF
1 : ON

PERIODIC PRINT-OUT
0 : OFF
1 : ON

(8) Write the setting data into the NVRAM
The writing method is equal to YOKOGAWA 2 Mode. (see page.11)

CAUTION !! Turn the DIP switch bit 6 to OFF side before the power switch
should be turned OFF.