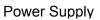
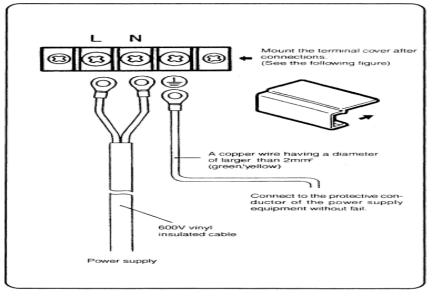
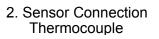
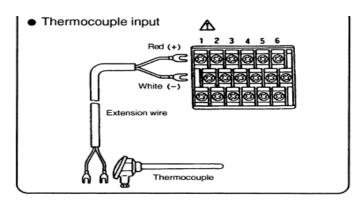
Basic Manual for RD200, RD2800 Series Recorder

1 Back Terminal connection

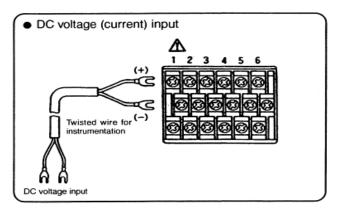




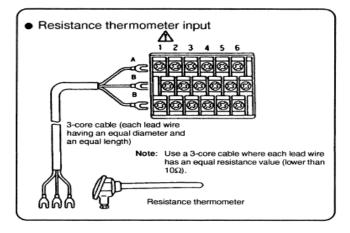




DC Voltage and Current**

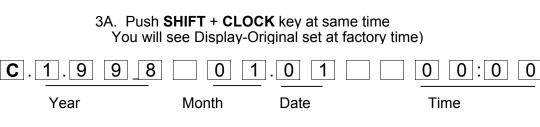


RTD (PT100ohm)



***Make sure all terminals are tightly connected.

3. Date, time, Year (Clock Setting) (See manual under Time setting)



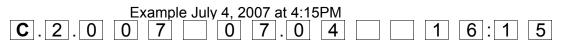
***4/20mA connect 250ohm resister to the terminal.

3B. Push SET key

You will see curser under first digit of the month

Use Arrow key to move curser

3C. Change each digit to todays month, date, and time



3D. Push ENTRY Key

4. Input (Range) Setting (See manual under Range/printing range)

4A. Choose Input and range close to your input type

1) Voltage input

No.	Input type	Measuring range			Remarks	
01	DC (mV)	-13.80	to	13.80	mV	
02		-27.60	to	27.60	mV	
03		-69.00	to	69.00	mV	
04		-200.0	to	200.0	mV	For current
05		-500.0	to	500.0	mV	input, see
06	DC (V)	-2.00	to	2.00	V	Item 15.2.
07		-5.00	to	5.00	V	10.2.
08		-10.00	to	10.00	V	
09		-20.00	to	20.00	V	
10		-50.00	to	50.00	V	

2) Thermocouple input (*1)

,							
No.	Input	Measuring range					
140.	type	°C	°F				
21		-200.0 to 300.0	-320.0 to 570.0				
22	к	-200.0 to 600.0	-320 to 1110				
23		-200 to 1370	-320 to 2490				
24		-200.0 to 200.0	-320.0 to 390.0				
25	E	-200.0 to 350.0	-320.0 to 660.0				
26		-200 to 900	-320 to 1650				
27		-200.0 to 250.0	-320.0 to 480.0				
28	J	-200.0 to 500.0	-320.0 to 930.0				
29		-200 to 1200	-320 to 2190				
30	т	-200.0 to 250.0	-320.0 to 480.0				
31		-200.0 to 400.0	-320.0 to 750.0				
32	R	0 to 1200	32 to 2190				
33	ĸ	0 to 1760	32 to 3200				
34	S	0 to 1300	32 to 2370				
35		0 to 1760	32 to 3200				
36	В	0 to 1820	32 to 3300				
37		-200.0 to 400.0	-320.0 to 750.0				
38	N	-200.0 to 750.0	-320 to 1380				
39		-200 to 1300	-320 to 2370				

No.	Input type		Measurin			g range		
140.	input type	°C		۰F				
40	W-WRe26	0	to	2315	32	to	4200	
41	WRe5-WRe26	0	to	2315	32	to	4200	
43	PtRh40- PtRh20	0	to	1888	32	to	3400	
44		-50.0	to	290.0	32.0	to	550.0	
45	NiMo-Ni	-50.0	to	600.0	32	to	1110	
46		50	to	1310	32	to	2350	
47	CR-AuFe	0.0	to	280.0K	0.0	to	300.0K	
48	Platinel	0.0	to	350.0	-140.0	to	660.0	
49	I	0.0	to	650.0	-140	to	1200	
50		0	to	1390	-140	to	2530	
51	1	-200.0	to	250.0	-320.0	to	480.0	
52	U	-200.0	to	500.0	-320.0	to	930.0	
53		-200.0	to	600.0	-320	to	1110	
54		-200.0	to	250.0	-320.0	to	480.0	
55	L	-200.0	to	500.0	-320.0	to	930.0	
56		-200	to	900	-320	to	1650	

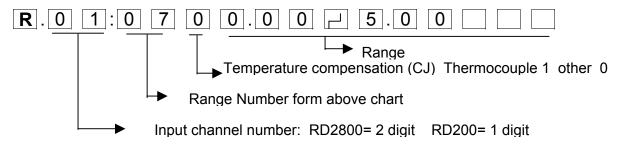
3) Resistance thermometer input (*2)

resistance alernometer input (2)					
No.	Input	Measuring range			
140.	type	°C	۰F		
70	Pt100	-140.0 to 150.0	-220.0 to 300.0		
71	(JIS'97)	-200.0 to 300.0	-320.0 to 550.0		
72	(515 37)	-200.0 to 850.0	-320 to 1560		
73	Pt100	-140.0 to 150.0	-220.0 to 300.0		
74	(QPt100)	-200.0 to 300.0	-320.0 to 550.0		
75	UIS'89 J	-200.0 to 649.0	-320 to 1200		
76		-140.0 to 150.0	-220.0 to 300.0		
77	JPt100	-200.0 to 300.0	-320.0 to 550.0		
78		-200.0 to 649.0	-320 to 1200		
79	Pt50	-200.0 to 649.0	-320 to 1200		
80	Pt-Co	4.0 to 374.0K	4.0 to 374.0K		

Example:K thermocouple for 0/1000 F. Choose No. 22

4B. Push SHIFT + RANGE Key at same time

You will see Display of original factory setting



 4C. Push SET Key You will see Curser under Channel number. Use Arrow key to move curser 4CA. Example 1. setting of Thermocouple (K type 0 to 2000 F)
\mathbf{R} . 0 1:2 2 1 0 \mathbf{r} 2 0 0.0 \mathbf{r}
► Push SPAC key to remove decimal Thermocouple always 1
Now Push ENTRY key Display will change to channel 02 and factory setting. To change the input, repeat of step 1. (Repeat 4CA) Always push ENTRY key after each channel program.
If all channel input is same as Channel 1, then, after programing Channel 1 and push ENTRY key, perform COPY
4CB. Push SHIFT + COPY key at same time Curser under referance channel: move curser by Arrow key S. C. O: P Y 0 1 = 0 2 1 2 Copied chnnel 1 setting to channel 2 to 12
Push: Entry Key display goes back to: R.1 2:2 2 1 0 2 0 0.0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
When all channel are programed: Push SHIFT + END key ***ENTRY Key only tos tore the change, Shift + End key to change the program and store.
4CD : Defult temperature is always degrees C. If Degrees F is needed:
Push SHIFT + F key for longer then 3 second $. d E G . C \dashv d E G . F \frown d E G . C$
Push SET Key Youw will see curser under dEG.C To change to Deg. F, Push Up/down Arrow key . d E G.C d E G.F d E G.F
Push ENTRY key (no need to push SHIFT + END key)
Push Display key to go back to progam display.
4CAA . mV, Voltage and Current (4/20mA) input (4/20mA input, make sure 250 ohm resister is connected to the terminal)

Push SHIFT + RANGE Key at same time

R .0 1:0 7 0 0.0 0 ↓ 5.0 0 □					
Example 4/20mA input					
Push Set Key You will see curser under channel nummber, move curser by Arrow key. 4/20mA with 250ohm Resiter is 1-5V					
R .0 1:0 7 0 1.0 0 □ 5.0 0 □ ► Range of 1 to 5V only use ► CJ is always 0 for voltage, current and RTD Range number form the chart -5 to 5 V					
Push ENTRY Key					
**After Entry key, Channel change to next channel number **If not same input, then enter the input number and range (4CA) **If all channel to be same input, perform Copy function as above. (4CB)					
After all channel are program, Push SHIFT + END key					
 Scale (Min. and Max reading of input range) (see manual under Scale) **Thermocouple Scale is noramlly same as Range so no need to perform Scale programming. 					
5A. Example 4/20mA input with scale of 0 to 100					
Push SHIFT + SCALE key at same time (4/20mA was set as 1 to 5V) You will see display:					
S.1 - 5					
Push SET key (You will see curser under 1)					
Change to following, moving curser using Arrow key S 0 <					
Push ENTRY Key					
Channel number change to next channel					
**If next channel is different then previous, perform change then push ENTRY					

***If all cahnnel Scale to be same, Perform Copy (4CB) function

When all channela re programed, Push **SHIFT + END** key at same time.

6. Chart Speed

Factory set chart Speed is 20mm per hour

To change chart Speed: Push SHIFT + CHART key at same time

Η	C S 0 0	20
	Push SET key You will see curser under chart s Example: change to 2 inches (50	
Η	C S . 0 0	50
	Push Entry Key. This will store	the change (no need to push END key

basic programming done, push recorder ON and start recording