# **TRM-20 Paperless Recorder**

# **Operation Manual (Simple Version)**

Rev.1

TOHO ELECTRONICS INC.

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# **1. NAMES AND FUNCTIONS OF PARTS**

# **1.1 Names and functions of parts**



#### ① Display area

The LCD is provided with touch panel. Display the measurement data and other various Parameter set screens. Touch the surface to set data.

### 2 Function part cover

This panel protects the function part. It pulls it forward while pushing two knobs below to appear function part. Note: Do the both hands to the opening and shutting of cover. It causes damage.



#### 3 Status display lamp

Power supply on/off and the state of recording are indicated.

Lamp ON (Lighting) : Power ON, recording suspended

Lamp blinks (1 sec. ON/1 sec. OFF) : Power ON, recording in progress

Lamp blinks (high speed) : Power ON, SD card writing

Lamp OFF (Lights out) : Power OFF

(4) REC key

Used to start or stop recording.

(5) MENU key

Display the menu screen.

Used to the continuance of record when check screen of stops recording.

6 FUNC key

The content of operation is allocated, and the operation can be done. Allows the change display, capture and display message to be selected.

O SD card slot

Used for inserting the SD card.

To remove the SD card from the slot, press SD card to insert.



Please confirm the direction to the insertion of SD card. When forcibly inserting it in a wrong direction, SD card and the main body are destroyed.

## 1.2 Mode setting

### [Explanation]

A more detailed setting can be done by setting the operational mode on the "Parameter" and "System".

### [Operation]

The MENU key is pushed, and the menu screen is displayed. Select "System" and "Device/Other" and "Mode".

	Set the operati	on mode.	
SD Ope.	Operation mode	Normal •	①Operation mode
Comm.			
Device/Other			
47			
Engineering		OK Cancel	
		0% REC 💼 [ 💼 ]	

### 1 Operation mode

The item can be changing by selects "①Operation mode" touching.

("Normal"  $\rightarrow$  "Advanced"  $\rightarrow$  "Normal" ...)

The set item displayed on the "Parameter" and "System" increases in an Advanced mode compared with a Normal mode.

Initial value is "Normal".

# 2.1 Connection to terminals

Terminal board is in the uppermost part and there is 4-stage or less in the lower side for 1-stage and the input.

Allocate the number for 1 to 9 in terminal board of each stage. The specified terminal board position and number to each terminal board screw.



Terminal board				Termi	nal boai	d No.			
position	1	2	3	4	(5)	6	$\overline{\mathcal{I}}$	8	9
5—		POW		NC	CON	I ALM	NC	RS	-485
5	L	Ν	G		Α	С		+	-
		CH.10			CH.11			CH.12	
4-	+	_	V	+	—	V	+	—	V
	А	В	В	Α	В	В	А	в	В
	CH.7		CH.8		CH.9				
3—	+	—	V	+	—	V	+	Ι	V
	А	в	в	А	в	в	А	в	в
		CH.4			CH.5			CH.6	
2—	+	—	V	+	_	V	+	Ι	V
	А	В	В	Α	В	В	А	в	В
		CH.1			CH.2			CH.3	
1—	+	—	V	+	—	V	+	—	V
	А	В	В	Α	В	В	Α	В	В

The terminal board 2-, 3- and 4- is not used, according to the number of input channels.

### Detail of terminal arrangements to each input for 1 to 12 CH.



## 3.1 Basic composition of Data Display screen



1 Group screen name

Display the screen name ("Display Name") that was set arbitrarily. The group screen can be changed by touching.

2 Clock display

Upper stage : Displays currently date and time.

Lower stage : Displays date and time in cursor area, when Historical trend display.

3 Change trend

The type of trend display can be changed by touching.

The name corresponding to the trend screen displayed now is displayed.

- REAL : Real time trend display
- HIST : Historical trend display
- (4) Graph type

The type of graph display can be changed by touching.

("Horizontal trend display"  $\rightarrow$  "Vertical trend display"  $\rightarrow$  "Bar graph display"  $\rightarrow$  "Digital display"  $\rightarrow$  "Event log"  $\rightarrow$  "Horizontal trend display"...)

⑤ Change display

The displaying method of screen can be changed by touching.

("Display all ON"  $\rightarrow$  "<sup>(6)</sup>Scale plate OFF"  $\rightarrow$  "<sup>(8)</sup>Measured value display area OFF"  $\rightarrow$  "<sup>(6)</sup>Scale plate / <sup>(8)</sup>Measured value display area OFF"  $\rightarrow$  "<sup>(6)</sup>Display all ON" ...)

6 Scale plate

Display scale on the "⑦Data display area". The scale width and display color corresponding to the channel is changed, when each channel point of "⑧Measured value display area" is touched.

⑦ Data display area

Allow the Real time trend display, Historical trend display, Bar graph display and Digital display to be displayed. (See item 3.2 to 3.5)

Display measured data at the position of the cursor when Historical trend display.

### (8) Measured value display area

Display the currently measured value. The trend corresponding to the channel is displayed by touching channel in the heavy line for 3 second, and displays the currently setting unit on the channel display area.

The display color of "6 Scale plate" and the scale width are changed to corresponding what.

The setting contents of the channel etc. can be verified, when keeps touching for 3 second.



Check settings: The setting status can be verified. And, a set item that becomes an object is selected touching, and Change set button can be moved directly to the selected set screen by touching.

Change set button can only be displayed when the "Mode" is "Advanced".

Check settings		2.4
Input type Burnout	: ±10mV : No_	
RJC RJC Channel Scaling Unit Input filter Record type Offset Gain (%) Make scale	OFF CH01 OFF mV O Instant value 0.00 0.00 Auto	
	Change set	Close

Scale: The scale can temporarily be changed.

Comment: The comment point is specified on the trend screen, and it can input one's comments the position.

9 Event display area

It displays alarm information that occurs at present. (channel No. and alarm No.)

1 Event flag display area

The time when the event of the alarm, message and input etc. has been generated is displayed in red.

- ① SD card loading / writing status display
  - It indicates the loading state of the SD card.

Gray display : shows the state where the SD card is not loaded in the slot.

Aqua display : shows the state where the SD card is loaded in the slot.

D SD card indicate display

It indicates how much of the SD card has be used in percentage.

13 Main record display

It indicates the state of the main record.

Aqua display : shows the state where the main record is not started.

Red display : shows the state where the main record is started.

Real time trend display is displayed data (trend line) only while recording.

(1) Sub record display

It indicates the state of the sub record.

Aqua display : shows the state where the sub record is not started.

Red display : shows the state where the sub record is started.

Real time trend display is displayed data (trend line) only while recording.

(15) Internal memory

It indicates the state of the internal memory.

Aqua display : shows the state where the internal memory is not access.

Red display : shows the state where the internal memory is access.

# 3.2 Real time trend display of measured data

### [Explanation]

The measured data can be display in graph. The vertical or horizontal trend directions can be selected by touching to GRPH button.

The refreshment cycles of graph synchronizes record cycles.



# 3.3 Display of measured data in bar graphs

### [Explanation]

The measured data can be display in bar graph.

### [Operation]

The measured data can be changed bar graph by touching the GRPH button several times.



# 3.4 Digital display of measured data

### [Explanation]

The measured data can be display in digital graph.

### [Operation]

The measured data can be changed digital graph by touching the GRPH button several times.



- 1 Measured values of each channel are displayed in digital value.
- 2 When an alarm occurs, Alarm No. at the channel is displayed in red.

## 3.5 Historical trend display

### [Explanation]

The past data of currently recoding data or the data saved in the past can be read and displayed.

### [Operation]

Press the REAL button on the Real time trend display, and the following display appears.



① Cursor date

The date that the "②cursor" indicates is displayed. (Upper stage is currently date)

2 Cursor

This date of line for measured value is displayed on the "DMeasured value display of each channel".

3 Arrow key

The position of cursor can be moved.

(4) Expansion key

Select the minimum and the maximum values, and expands graph display area on the range.

The standard size can be returned by touching again.

(5) Display movement key

The graph display area can be moved.

6 File select key

The data saved in the past can be read and displayed.

The following items are displayed on the historical trend display based not on the setting of the past recording but on the currently selected values.

- Trend direction
- Number of screen partition
- Trend scale display
- Color bar display selection

# 3.6 Event history / communication history display

### [Explanation]

When a specific event is generated in the data recording now, it is possible to make a mark.

### [Operation]

The event history display can be displayed by touching the <u>GRPH</u> button several times. And, the screen can be changed communication history display by touching the <u>DISP</u> button several times.



# 4. SETTING AND CHECKING PARAMETERS

# 4.1 Setting and checking

① Main menu

The menu display can be displayed by pressing <u>MENU</u> key. The parameter setting display can be displayed by select "Parameter" touching.

Refer to Item 4.2 for the contents and the operation of the parameter setting display.







# 4.3 Basic operation of setting screens

### [Explanation]

The basic operation of the setting screens is classified in the following 3 methods. In this case, the menu corresponding to the setting menu is moved by touching menu.

1 When selecting contents to set by the menu.

Channel 🛛 🖌 CH01
------------------

In this case, the channel select display can be changed by selects "CH01" touching.

The range is selected can be changed deep color by touching you want to select channel, and the arbitrarily setting channel.

HO FUGAL	CH01	CH02	CH03	CH04
Calc. CH	CH05	CH06	CH07	CH08
	CH09	CH10	CH11	CH12

The channel No. can be directly changed by touching these arrow keys.  $(\blacktriangleleft, \blacktriangleright)$ 

② When selecting contents to set from scroll bar.

The scroll bar is displayed when there is a selection item that exceeds the size of the screen. The display can be changed by touching arrow key  $(\blacktriangle, \triangledown)$  or sliding scroll bar.

	Select the	input type.		
Channe I	DC voltage	<mark>K1(-200.0-1370.0)</mark> K2(0.0-600.0)		
Calc. CH	DC current	K3(-200.0-300.0) E1(-200.0-800.0) F2(-200.0-300.0)		Scroll bar
Display	TC	Ē3(-200.0-150.0) J1(-200.0-1100.0)		
Record	RTD	J2(-200.0-400.0) J3(-200.0-200.0) T1(-200.0-400.0)		
Other		†2(-200.0-200.0) C(0.0-2320.0)	▼	
		ок С	ancel	
		🙍 🛛 0% REC 📶 [ 🗐 ]	]	

③ When setting contents by entering characters or numerical value.



In this case, touch the "Group 1" to display the character entry display.

Touch the buttons to enter a character one by one, and touch the OK button after entry.

The some characters corresponding to the one button. The character can be changed by touching the same button several times.

Example : In this case of the touching <u>ABC</u> button.  $("A" \rightarrow "B" \rightarrow "C" \rightarrow "A" ...)$ 

#### [Reference]

### **Description of Character Entry screen**



① Character Entry box

The input character is displayed.

2 Alphabet button

The capital letters and small letters can be changed.

③ Numerical value button

The numerical value input can be changed.

④ Symbol button

The symbol input can be changed.

**(5)** Del button

The character or numerical value of the currently cursor position can be deleted.

<sup>6</sup> BS button

The character or numerical value of the currently cursor position ahead a character can be deleted, and the cursor is moved to the left.

#### ⑦ Space button

The space character can be inputted.

- (8) Arrow key The arrow key can be moved.
- (9) Character input button

The button is to input character.

In case where the character string is filled with blank, delete the blank and then enter characters. You can't enter characters without deleting blank.

The "voice sound symbol" and "semivoiced sound symbol" uses one character's worth of an area.

They should advance one character with the arrow key  $( \rightarrow )$ , when you continuously input the character allocated in the same button.

1 Clear button

It has input character or numerical value can be all deleted.

① List button

The input character can be selected from character string list.

12 OK button

The input contents can be entered.

1 Cancel button

The input contents can be canceled.

# 4.4 Setting the input spec of channel

### [Explanation]

For select of the input types for each channel (thermocouple, resistance bulb and DC voltage input), and the presence of Burn Out function can be set.

Note: When the recorder is in recording, the "Input type" cannot be changed.

### [Operation]

Select the "Channel"  $\rightarrow$  "Input" on the "Parameter".



#### ① Channel

The channel select display can be displayed by selects "①Channel" touching.

Select the arbitrarily channel number by touching. (After select, return to input setting display automatically) Touch the Chancel button when not changing.

	Select the ch	annel.			
Channel	Input CH	CH01	CH02	CH03	CH04
Calc. CH	Calc. CH	CH05	CH06	CH07	CH08
Display		CH09	CH10	CH11	CH12
Record			- 14 -		
Other					
				Car	icel
		0%	REC 🔟	) [ 🗐 ]	

### 2 Input type

The input type select display can be displayed by selects "2 Input type" touching.

The list of input type can be displayed by touching input group. Selects the input signal touching, and sets  $\overline{OK}$  button touching. (The selected item is displayed in blue)

The display can be changed by touching arrow key ( $\blacktriangle$ ,  $\triangledown$ ) or sliding scroll bar.

Touch the Chancel button when not changing.

Input group 🦳		Select the i	nput type.
	Channel	DC voltage	K1(-200.0-1370.0) K2(0.0-600.0)
	Calc. CH	DC current	K3(-200. 0-300. 0) E1(-200. 0-800. 0) F2(-200. 0-300. 0)
	Display	TC	Ē3(-200.0-150.0) J1(-200.0-1100.0)
	Record	RTD	J2(-200.0-400.0) J3(-200.0-200.0) T1(-200.0-400.0)
	Other		T2(-200, 0-200, 0) C(0, 0-2320, 0)
			OK Cancel
		0	🕺 0% REC 👩 [ 🗊 ]

#### 3 Burn Out

Setting the Burn Out function. (The record swings over to the 0% side or the 100% side) Burn Out function can only be set when the input type is "TC".

### ④ RJC

The channel that measures RJC function can be turned on, and turning off be selected.

(5) OK, Cancel button

The each setting for changing contents is saved by the OK button. And, the "Parameter" can be returned not change by the Cancel button.

6 No selected range

The gray color is displayed that cannot be selected now. In this case, can be selected by presses  $\overline{OK}$  button (or Cancel button) returning to "Parameter".

# 4.5 Channel

### [Input]

Item	Setting contents	Advanced
Channel	Select the channel number. (Select range is for CH1 to CH12.)	
Input type	Set the input type.	
Burn Out	Select the Burn Out function.	
RJC	Select the RJC function. X1	0
RJC Channel	Select the RJC channel.	0

X1 Burn Out function can only be displayed when the input type is "TC".

\*2 RJC Channel can only be displayed when the "RJC" is "Assignment channel".

#### [Scaling]

Item	Setting contents	Advanced
Channel	Select the channel number. (Select range is for CH1 to CH12.)	
Scaling	Set the scaling and square rooter. X1	
Range	Input the value of range. $\times 2$	
Ind. Value	Input the Ind. Value. X2	
Ind. value DP	Set the Ind. Value DP. $\times 2$	
Unit	Set the unit. $\times 2$	

X1 Scaling can only be displayed when the input type is "DC voltage" or "DC current".

(Scaling is not displayed when the input type is "TC" or "RTD".)

\*2 This item can only be displayed when the "Scaling" is "ON" or "Square root ON".

### [Display]

Item	Setting contents	Advanced
Channel	Select the channel number. (Select range is for CH1 to CH12.)	
TAG	Input the TAG.	
Description	Set the comment for input channel.	
Display color	Select the display color.	

#### [Scale]

Item	Setting contents	Advanced
Channel	Select the channel number. (Select range is for CH1 to CH12.)	
Range of scale	Input the range of scale.	
Partitions	Input the value of partitions.	0

#### [Alarm value]

Item	Setting contents	Advanced
Channel	Select the channel number. (Select range is for CH1 to CH12.)	
Act.	Select the Action type.	
OUT	Select the DO number.	
Value	Input the alarm value. 💥	

X Value cannot be set when the "Act." is "abnormalities"

[Alarm setting]

Item	Setting contents	Advanced
Channel	Select the channel number. (Select range is for CH1 to CH12.)	0
Hysteresis	Input the value of Hysteresis.	0
Alarm Delay	Input the value of Alarm Delay.	0

[Action]

Item	Setting contents	Advanced
Channel	Select the channel number. (Select range is for CH1 to CH12.)	
Input filter	Input the value of Input filter.	
Record type	Select the Record type.	
Offset	Input the value of Offset.	
Gain (%)	Input the value of Gain.	

### [Copy]

Item	Setting contents	Advanced
Source CH	Select the Copy source channel number.	
Destination CH	Select the copy destination channel number. (Plurals can be selected.)	

# 4.6 Calc. CH

### [F value]

Item	Setting contents	Advanced
Reference temp.	Input the value of Reference temp.	0
Z value	Input the Z value.	0
Start temp.	Input the value of Decimal point.	0
Manual reset	Start the Manual reset.	0

### [Timer]

Item	Setting contents	Advanced
T1 timer(sec)	Input the value of T1 timer.	0
T2 timer(min)	Input the value of T2 timer.	0

### [Display]

Item	Setting contents	Advanced
Channel	Select the channel number. (Select range is for CH13 to CH48.)	0
TAG	Input the TAG.	0
Description	Set the comment for input channel.	0
Display color	Select the display color.	0

### [Scale]

Item	Setting contents	Advanced
Channel	Select the channel number. (Select range is for CH13 to CH48.)	0
Range of scale	Input the range of scale.	0
Partitions	Input the value of partitions.	0

### [Alarm value]

Item	Setting contents	Advanced
Channel	Select the channel number. (Select range is for CH13 to CH48.)	0
Act.	Select the Action type.	0
OUT	Select the DO number.	0
Value	Input the alarm value. 💥	0

 $\times$  Value cannot be set when the "Act." is "abnormalities"

### [Alarm setting]

Item	Setting contents	Advanced
Channel	Select the channel number. (Select range is for CH13 to CH48.)	0
Hysteresis	Input the value of Hysteresis.	0
Alarm Delay	Input the value of Alarm Delay.	0

### [Action]

Item	Setting contents	Advanced
Channel	Select the channel number. (Select range is for CH13 to CH48.)	0
Input filter	Input the value of Input filter.	0
Record type	Select the Record type.	0
Offset	Input the value of Offset.	0
Gain (%)	Input the value of Gain.	0

[Copy]

Item	Setting contents	Advanced
Source CH	Select the Copy source channel number.	0
Destination CH	Select the copy destination channel number. (Plurals can be selected.)	0

# 4.7 Display

### [Group name]

Item	Setting contents	Advanced
Group	Select the group number.	
Display name	Set the Display name.	
TAG disp set	Select the TAG display set.	
Display	Select the display "ON", "OFF". X	

X Display cannot be set when the "Group" is "Group1" or "Sub Group".

### [Group CH]

Item	Setting contents	Advanced
Group	Select the group number.	
Chanel No.	The selected part is brightly displayed, and an arbitrary channel can be set.	

### [Graph display]

Item	Setting contents	Advanced
Group	Select the group number.	
Horizontal trend	The Horizontal trend display is "ON" and "OFF" is selected.	
Vertical trend	The Vertical trend display is "ON" and "OFF" is selected.	
Bar graph	The Bar graph display is "ON" and "OFF" is selected.	
Digital display	The Digital display is "ON" and "OFF" is selected.	

# 4.8 Record

[Setting(Main)]

Item	Setting contents	Advanced
Record Cycle	Select the Record Cycle.	
File rec cycle	Select the File rec cycle.	
File overwrite	Select the File overwrite function, when SD card memory full. X	

 $\ensuremath{\overset{\scriptstyle\triangleleft}{\times}}$  Old data is deleted and operation is set when select the "ON".

The record operation is stopped when the amount of the memory remainder is lost when select the "OFF".

#### [Setting(Sub)]

Item	Setting contents	Advanced
Sub rec cycle	Select the Sub record cycle.	0
Sub pre rec	Select the Sub pre record.	0
Sub rec timing	Select the Sub record timing.	0
DI No.	Select the DI number. 💥	0

X "DI No." can only be displayed when the "Sub rec timing" is "DI".

### [Schedule]

Item	Setting contents	Advanced
Schedule	Select the Schedule.	0
Start time	Input the value of Start time.	0
End time	Input the value of End time.	0
Select week	Select the week. (Plurals can be selected.)	0

# 4.9 Other

### [Unit]

٦.			
	Item	Setting contents	Advanced
	Unit	The edit display of new unit can be moved by touching "Add".	

### [Message]

Item	Setting contents	Advanced
Message No.	Select the Message number.	0
Message	Input the Message.	0
Timing	Select the timing of message is displayed.	0
Channel No.	Select the channel number. $\times 1$	0
Alarm No.	Select the alarm number. $\times 1$	0
DI No.	Select the DI number. $2$	0

X1 This item can only be displayed when the "Timing" is "Alarm occurred" or "Alarm cleared".

\*2 "DI No." can only be displayed when the "Timing" is "DI ON" or "DI OFF".

### [DI]

Item	Setting contents	Advanced
DI No.	Select the DI Number.	0
Function	Select the DI function.	0

### [Param initial]

Item	Setting contents	Advanced
Param initial	Initialize the parameter.	

### [Wizard]

Item	Setting contents	Advanced
Wizard	An at least necessary set item can continuously be set to each channel.	*

 $\ensuremath{\mathbbmath{\mathbb{K}}}$  Wizard can only be displayed when the "Mode" is "Normal".

# 5. SETTING AND CHECKING SYSTEMS

# 5.1 SD / Param

### [SD remove]

Item	Setting contents	Advanced
SD remove	Start the remove SD card.	

### [SD format]

Item	Setting contents	Advanced
SD format	Start the format SD card.	

### [Param read]

Item	Setting contents	Advanced
Param read	Select the reading file.	

#### [Param write]

Item	Setting contents	Advanced
Param write	Select the writing file.	

# 5.2 Comm.

### [Ethernet1]

		-
Item	Setting contents	Advanced
IP Address	Input the IP Address.	
Subnet Mask	Input the Subnet Mask.	
Default GW	Input the Default GW.	
DNS address	Input the DNS address.	
MAC Address	Display the MAC Address.	

### [Ethernet2]

Item	Setting contents	Advanced
Keep alive	Select the Keep alive function.	0
Keep alive cycle	Input the value of Keep alive cycle.	0

### [SNTP1]

Item	Setting contents	Advanced
Current date	Display the Current date.	
SNTP Func	Select the SNTP function.	
SNTP address	Input the SNTP address.	
Cal cycle time	Input the value of Cal cycle time.	
Cal start	Start the calibration.	

### [SNTP2]

Item	Setting contents	Advanced
Get the time,	The function to acquire time when the power supply is turned on is "ON" and "OFF" is	
when power ON.	selected.	
Time zone(UTC)	Select the Time zone.	

### [FTP]

Item	Setting contents	Advanced
User name	Input the User name.	
Password	Set the Password. (Cannot use space character in password.)	
Level	Select the Level.	

[Modbus]

Item	Setting contents	Advanced
Ope. select	Select the operation of Modbus.	0
Station No.	Input the value of Station number.	
Modbus TCP Receive timeout	Input the time until timeout.	

[RS-485]

Item	Setting contents	Advanced
Parity	Select the Parity function.	0

# 5.3 Device / Other

### [LCD]

Item	Setting contents	Advanced
Sleep time(min)	Input the value of sleep time.	
Act. brightness	Input the value of LCD active brightness.	
Sleep brightness	Input the value of LCD sleep brightness.	

### [Clock]

Item	Setting contents	Advanced
Current date	Display the Current date.	
Setting date	Input the value of Setting date.	

### [FUNC key]

Item	Setting contents	Advanced
Function	Set the Function key.	

### [File format]

Item	Setting contents	Advanced
File format	Select the File format.	

### [Jump menu]

Item	Setting contents	Advanced
Add	The item added to the menu display is selected.	

### [Mode]

Item	Setting contents	Advanced
Operation mode	Select the Operation mode.	

### [Language]

Item	Setting contents	Advanced
Language	Select the Language.	
Date form	Select the Date format.	

[Version]

Item	Setting contents	Advanced
Version	Display the Version and Serial number.	