

# PAPERLESS RECORDER: TRM-00J

## RENEWAL INFORMATION

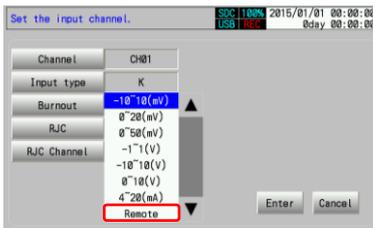


### Features of additional functions

- External device data (setting / measurement data, etc.) with Modbus master function such as PLC and touch panel can be written and recorded in TRM-00J by communication.
- Data values on the slave side can be recorded using the recorder as the communication master.  
(\* Recording time is asynchronous)
- DO01 to DO12 (12 points) of TRM-00J can be controlled (ON / OFF) by communication from an external device with Modbus master function such as PLC or touch panel. DI (read only) and DO commands are newly added and can be specified in bit units.
- A carrying case is available as an option.

### 【Additional function 1】

<Fig.1>



Added "REMOTE" to the end of input type settings (CH01 to CH06) (Fig. 1)

In addition to the conventional recording method (connecting transmission signals (voltage / current) of sensors and measuring instruments), it is now possible to record the measured values of external devices as recording results via communication.

### <Proposal of Utilization Scene>

- ① Memorize the value set from the top with RS-485 (Modbus)
  - Adopts Modbus communication, which is popular in FA.
  - It is possible to use only any channel.

#### ◆ Advantages ◆

- The host system does not require AO for the number of channels you want to record, and can be realized with one RS-485.
- The error of analog signal (output-input) can be eliminated.

→ **The log function can be extended to the current system.**

- ② Store the value obtained from the temperature controller with RS-485 (Modbus / TOHO protocol).

#### ◆ Advantages ◆

- The error of analog signal (output-input) can be eliminated.
- Can be used even when the output of the temperature controller is not available. → **It is possible to build a local data collection system.** (HACCP compliant, air circulation (CO2 concentration) management, record visualization / data analysis)

\* ① and ② cannot be used together



< Local data collection system: Wired >



< Local data collection system: Wireless >

## [Additional Function 2]

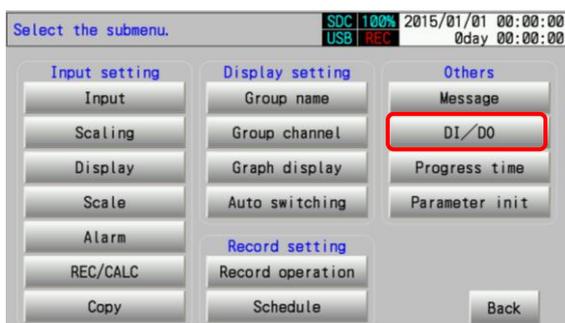
A function as extended I / O for external devices has been added, making it possible to refer to DI information and control DO via communication.

-Changed the name from "DI" to "DI / DO" in "Other" of the parameter settings (Fig. 2).

-The DO function setting had been added to the DI function setting, and the DO function alarm and remote can be changed (Fig. 3).

-Added "DI operation" and "DO operation" commands

<Fig.2>



<Fig.3>

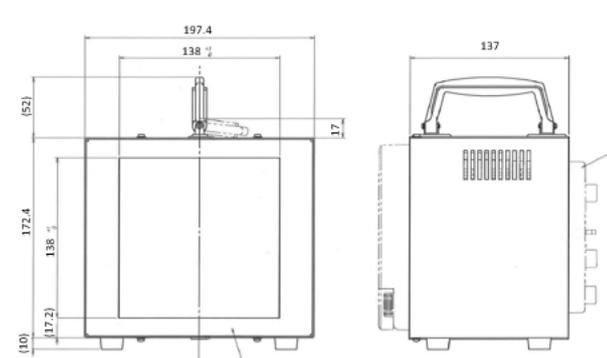


## [Additional Optional Items]

Added the carrying case "TRM-CARRY CASE" as an optional item.

External dimensions: 234.4 x 197.4 x 137 mm (including handle).



Models to be installed	Model	Dimensions
TRM-00J TRM20A TRM10C	TRM-CARRYCASE	  <p>When TRM-00J is installed</p> <p>When TRM-00J is installed</p>



Warning

● This product is designed for use in general industrial equipment. (Do not use this product with equipment that may greatly affect the human life)



Caution

● Please read the operation manual carefully for proper and safe usage of the product.  
● In case the trouble of this product may cause damage or loss to system or property, take necessary safety measure to prevent the accident before using this product.



**TOHO ELECTRONICS INC.**

Head Office: 2-4-3 Nishihashimoto, Midori-ku, Sagami-hara-shi, Kanagawa 252-0131, Japan

Phone: +81-42-700-2100 FAX: +81-42-700-2112

E-Mail: [overseas@toho-inc.co.jp](mailto:overseas@toho-inc.co.jp)

Website: <http://www.toho-inc.com/english/>

● Specifications and rated values in this catalog are subject to change without notice.

Note: The color printed in this catalog may be different from the actual color.