



PAPERLESS RECORDER

TRM-20



EASY OPERATION BY TOUCH PANEL LARGE
CAPACITY
DATA STORAGE
TO
SD MEMORY
CARD

FEATURES

- •5.7-INCH TFT LIQUID CRYSTAL DISPLAY TOUCH PANEL
- SELECTABLE FROM INPUT CHANNEL 6, 9
 AND 12CH
- MULTI-RANGE INPUT
- PC SUPPORT SOFTWARE SUPPLIED AS STANDARD ACCESSORY
- ETHERNET COMMUNICATION FUNCTION SUPPLIED AS STANDARD EQUIPMENT
- DATA STORAGE TO LARGE CAPACITY SD CARD
- CONFORMS TO IP65 WATER-PROOF/ DUST-PROOF (FRONT PORTION)
- **OCONFORMS TO CE STANDARD**

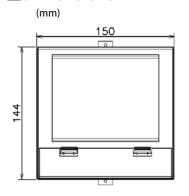
Simple &

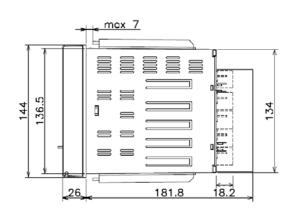
TOHO ELECTRONICS INC.

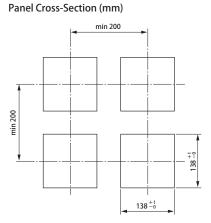
SPECIFICATIONS

INPUT	NO. OF POINTS	SELECTABLE FROM 6, 9 AND 12 POINTS *When 12-point type is selected, the option selection for the DI/DO card cannot be made.		RECORDING FUNCTION	RECORDING MEDIUM	SD Card (Max. 2 GB) SDHC Card (Max. 32GB)	
	MEACURING CVCLEC				INTERNAL MEMORY	Appx. 100MB	
	MEASURING CYCLES	100ms		-	RECORDING	Recording starts in fixed cycle by turning ON the REC key on the front face.	
	DATA SAVE CYCLE	Selectable from 1 sec. to 60 min. (Main/Sub Data Save) For Sub-Data Save. 100ms is selectable		_	METHOD	New data file is made in every start of recording	
	INPUT TYPE	THERMOCOUPLE			DATA SAVE CYCLES	Selectable from 1 sec. to 60 min.	
					DATA SAVE PERIOD	Selectable from 1 hr. to 1 year	
		R.T.D.	Pt100, JPt100		DATA FORMAT	CSV Data	Appx. 120 bytes for every data save cycle (In 6-CH input)
		DC VOLTAGE	-10 to +10mV, 0 to 20mV 0 to 50mV, -0.2 to +0.2V -1 to +1V, -10 to +10V			Binary Data	Appx. 30 bytes for every data save cycle (In 6-CH input)
			0 to 5V			*Data volume depends on the recording condition	
		DC CURRENT	4-20mA (external shunt resistance)	COMMUNICATION FUNCTION	ETHERNET 10 BASE-T	HTTP Server, FTP Server MODBUS TCP Protocol	
PERFORMANCE	INDICATION ACCURACY	\pm of the input range (0.1% + 1-digit)		GENERAL ATTACHMENT METHO			
DISPLAY	DISPLAY TYPE	5.7-inch TFT Color LCD (QVGA)		SPECIFICATION	MATERIAL		
			stive Touch Display		MATERIAL	Polycarbonate Glass 10% UL94-V0 (Case, bezel)	
	DISPLAY COLOR	16 colors			EXTERNAL DIMENSION	150 (W) × 144 (H) × 181.8 (D)	
	DISPLAY CONTENTS	Trend Display (Horizontal/Vertical Directions) Historical Trend Display (Horizontal/Vertical Directions) Bar Graph Display Digital Display History Display (Event/Communication)			WEIGHT	Appx. 1.0 kg. (6-CH input type)	
					POWER SOURCE	100 - 240 V AC 50/60 Hz	
					NORMAL OPERATING	Power Voltage	85 to 264 V AC
	SCREEN SAVER	BACKLIGHT AUT	<u>.</u>		CONDITION	Ambient temp.	0 - 50℃
	BACKLIGHT LIFE	50,000 HRS.	<u> </u>			Ambient humidity	20 to 80% RH
	LANGUAGE DISPLAY		n is selectable from the set display		POWER CONSUMPTION	Less than 15VA (Less than 25VA (
ALARM FUNCTION	No. OF SETTING	Up to 4 setting is	possible for every input channel	OPTION	DI/DO CARD	,	,
	ALARM OUTPUT	1-point (Open co	ollector output)			DI/DO	Input (Non-voltage contact) 9-points
	CONTACT STD.	30V DC 20mA					Output (open collector) 12-points
					COMMUNICATION	RS-485	MODBUS RTU Protocol

■Dimensions







■ORDER INFORMATION (MODEL CONFIGURATION)

TRM20









INPUT POINT	06 09		6-point		
			9-point		
	12		12-point (DI/DO cards not selectable)		
OPTION	1		mmunication	0	without
		(RS	S-485)	1	with
			Input/Output	0	without
		(DI/DO card)		1	with (when 12-point input is selected, this option is not selectable)
	3	3 Test Certificate		0	without
			1	with (Japanese version)	
				2	with (English version)

STANDARD ACCESSORIES

	QTY.	
MAIN UNIT	1 unit	
PANEL ATTACH	1 set	
CD-ROM	PC SUPPORT SOFTWARE INSTRUCTION MANUAL (JAPANESE/ENGLISH)	1 pc.
FRONT SIDE WA	1 pc.	

NOTE: SD card is not supplied. Please purchase the card at the computer shop.

SOLD SEPARATERY

ITEM NAME	MODEL		
DC CURRENT INPUT SHUNT RESISTOR	HMSU3081A11		
RS-485 COMMUNICATION TERMINAL RESISTOR	WMSU0303A01		
DI/DO CABLE (1 m)	WMSU0468A01		
DI/DO CABLE (3 m)	WMSU0468A02		

NOTE: Cable is not included in the option DI/DO. If necessary, please purchase DI/DO cable sold separately.



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