

ALTHEN

3. Setting

(1) Setting screen operation

Item selecting screen

Press the [MENU] key on the free-running screen to go to the setting screen.

<How to set>

Select the item with the directional keys (



If the submenu shows \uparrow ↓then there are selections in those directions.

Numerical entry screen

<How to set>

Numbers can be inputted by increasing or decreasing the value with the $\ riangle$ and \bigtriangledown keys



(2) AMP setting

Select the 4ch measurement content then select the sensor type to be connected.

[AMP]	1/10	AMP input cor	ndition settings (4ch)
CH Input ALL: On (A) ∇		Input	Off, On(A), On(J)
1 : On (A) ∇ 2 : On (A) ∇ 3 : On (A) ∇ 4 : On (A) ∇) for Model GS-103AT-4P. for Model GS-103JT-4P.

(3) LOGIC setting

Select the 4ch logic measurement content. When setting the pulse, select the slope if new logic is "on."

0.(1.0	LOGIC input condition settings (4ch)

2/10		· · · ·			. ,
Input Mode: Off⊽		Off			
CH:Input Slope 1: 2:		LOGIC	Input Slope	Off, On	
3:		Pulse	Input	Off	
	J		Slope	Counts	†H, ↓L
				Inst.	th.↓L

(4) DATA setting

Set the Sampling and Capture Mode those will be recorded to the data recording media.

The recorded data's size will be displayed in the information for the SD card being recorded to. Please take note of it.

[DATA] 3/10	DATA reco	rding condition setting
Sampling:1s⊽ Capture MODE:CONT.∇ Capture DIST:SD Card⊽	Sampling	500 ms, 1, 2, 5, 10, 20, 30s, 1, 2, 5, 10, 20, 30, 60 min
Free CAPA: 498180	Capture M	ODE CONT, 1 Hour, 24 Hour
	Capture D	IST Memory, SD card

(5) TRIGGER setting

Select the conditions for beginning data recording after measurement starts.

- : Pressing the [START/STOP] key on this module will start/stop recording. Off : The recording will start with the trigger source conditions after Start
- pressing the [START/STOP] key. The recording will stop after pressing the [START/STOP] key.
- Stop : The recording will start after pressing the $\left[\text{START/STOP} \right]$ key and will be stopped with the trigger source conditions.

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ER capture condition settings				
Setting	Off, Start, Stop			
Source	Off			
	Level	Off		
	/ Mode	Level		
		↑H Value setting		
		↓ L The level depends on the setting range.		
	Alarm			
	Date	Date, Time		

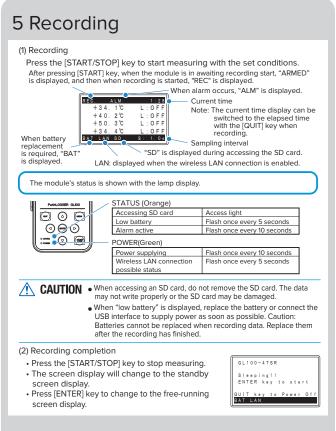
(6) ALARM setting

Set the alarm information. The parameters will vary depending on the setting range. Please set the number level.

[ALARM]	5/10	ALARM setting	IS	
Alarm:Off⊽		Alarm	Off	
			Level	Off
			/ Mode	Level
				↑H Value setting
				↓ L The level depends on the setting range.

(7) Temperature unit setting

From the OTHER-2 screen, you can switch between temperature displays in Celsius (°C) or Fahrenheit (°F).



6 How To Confirm The Data

Check the recorded data with the application software included with this module using the method below (for details, refer to the USER'S MANUAL).

(1) Connect the USB interface and check the online data (2) Insert the SD card into PC and check the data directly

(3) Check the data directly from PC via wireless LAN

7 Regarding Thermistor Sensor

1. Type A (GS-103A-4P)

Approx. 6 mm

2. Type J (GS-103JT-4P) <Ultra-thin shape> Approx. 15 mm Approx. 3,000 mm Approx. 3,000 mm Element section Insulation resistance: DC500V 100MΩ or more Withstands voltage: AC100V, 1 min. Bending: 90° bending each wire once

Approx. 5 mm Insulation resistance : DC500V 100MΩ or more
Withstand voltage : AC100V 1 min.

8 Specifications

Item	Contents		
Measurement data	Temperature/Logic, Pulse count (Instant, Accumulation)		
Measurement channels	Temperature 4 channels		
	Logic/Pulse count 4 channels		
Input method	Scan method, non-isolated input (Thermistor input)		
Measurement	Available for the two types of thermistors (option).		
temperature range	Type A: -40°C to 105°C (GS-103AT-4P)		
	Type J: -40°C to 120°C (GS-103JT-4P)		
Measured temperature	<main module=""> -40 ≤ TS < 0 ±0.7 (°C)</main>		
accuracy	0 ≤ TS ≤ 35 ±0.2 (°C)		
-	35 < TS ≤ 70 ±0.4 (°C)		
	70 < TS ≤ 120 ±1.0 (°C)		
	<thermistor sensor=""> ±0.4 °C (Typical value)</thermistor>		
Logic•Pulse Input	Input voltage range: 0 to +24V (One line ground input)		
	Input signal: No-voltage contact (a contact, b contact, NO, NC),		
	Open collector, voltage input		
	Threshold level: approx. +2.5V		
	Hysteresis: approx. 0.5V (+2 to +2.5V)		
Pulse measurement range	Instant : Max. 200C / Sampling		
	Accumulation: Max. 65535C		
Temperature unit	Select from °C (Celsius) / °F (Fahrenheit)		
Sampling interval	0.5, 1, 2, 5, 10, 20, 30 sec.		
	1, 2, 5, 10, 20, 30, 60 min.		
Triggers	Start trigger : OFF, LEVEL, ALARAM, DATE		
	Stop trigger : OFF, LEVEL, ALARAM		
Alarm	OFF / Level		
Cable length	approximate 20 cm		
Usage environment	-10 to 50°C, 80% RH or less (non-condensing)		
External dimensions	46 × 66 × 35.5 mm (not including protruding parts)		
[W×D×H] (approximate)			
Weight (approximate)	83 g		

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Note: Make sure not to apply external force to the device when the thermistor sensor is bent.