

DIGITAL TEMPERATURE CONTROLLER

TTM-i4N

■ FEATURES



- *EQUIPPED WITH ULTRA-FUZZY CONTROL
- *LARGE WHITE DISPLAY FOR CLEAR VIEW
- *LOADER CABLE FOR MAIN POWER SUPPLY AND PC SETTING

(Cable is sold separately. Software under development)

- *COMPACT BODY WITH DEPTH OF 59mm
- *SAMPLING CYCLE:250mS.
- *UL/CE STANDARD(Application pending)

■ Temperature Input Section

Input types	Thermocouple : K, J, R, T, N, S, B (JIS C 1602-1995) Resistance bulb : Pt100, JPt100 (JIS C 1604-1997) *The input types are switched by setting.
Sampling cycle	250mS
Display precision: (the ambient temperature 23±10° C)	Thermocouple : Input value ±(0.3% + 1 digit) or ±2° C, whichever is larger (the ambient temperature 23±10° C). However, the condition shall be ±3° C in the -100 to 0° C range, and ±4° C in the -200 to -100° C range. Not specified for temperatures not higher than 400° C for thermocouple B. Resistance bulb : Input value ±(0.3% + 1 digit) or 0.9° C, whichever is larger (the ambient temperature 23±10° C). At ambient temperatures of 0 to 50° C, ±(0.5% + 1 digit) or 1.5° C, whichever the higher.

■ Control output

Relay contact output	Control output	250VAC, 3A (resistance load) Contact 1a Minimum load 5VDC, 100mA
	Event 1 output	250VAC, 2.4A (resistance load) Contact 1a (Output 2 and Event 2 are common) DC5V 100mA Minimum load: 5VDC, 100mA
SSR driving voltage output	Control output	12VDC Load resistance: 600 or more

■ Loader communication

Communication specification: TTL. Protocol: MODBUS (RTU or ASCII).	
Network: 1:1. Information direction: Half-duplex.	
Synchronization system: Asynchronous. Transmission code: ASCII.	
Interface: TTL level. Communication speed: 1200/2400/4800/9600/19200/38400bps.	
Character:	When MODBUS (RTU) is selected - Start bit 1-bit fixed - Stop bit 1/2-bit - Data length 8-bit - Parity None/Odd no./Even no. - Comm. Address 1 station fixed
	When MODBUS (ASCII) is selected - Start bit 1-bit fixed - Stop bit 1/2-bit - Data length 7-bit - Parity None/Even no. - Comm. Address 1 station fixed
Response delay time: 0 - 250mS. Isolation: Isolated from power input and non-isolated from CPU circuit. Connection method: Dedicated connector	

