

HD6

Digital temperature controller

- Exclusive use for vinyl house open/close motor control
- 1 stage and 2 stage control operation by the set value
- Hysteresis setting by ON/OFF control
- Operation by temperature and time setting
- 0.1°C display function



●● Suffix code

Model	Code	Description
HD6-	☐ ☐ ☐ ☐	Economical digital temperature controller
Control type	F	ON/OFF control
Input	N	HANYOUNG NUX exclusive sensor (TH-540N) *Thermistor
Control output	M	Relay
Power Supply Voltage	P4	100 – 240 V AC, 50 – 60 Hz

●● Specification

Input

Input type (sensor)	HANYOUNG NUX exclusive sensor (TH-540D), (TH-540N).
Input sampling time	500 ms
Input display resolution	1 °C / 0.1 °C indication selection (usually less than the min displaying value)
Input impedance	TH-540D (84 KΩ), TH-540N (5 KΩ)
Input signal break detection	Control output becomes OFF when exceeding 5 °C from the max or min range

Performance

Display accuracy	±1 % of FS ±1 Digit
Insulation resistance	20 MΩ min (500 V DC)
Dielectric strength	2000 V AC 50 / 60 Hz for 1min (between the different recharging part)

Control function and output

Control type		ON/OFF control
Control action		Measured temperature > set temperature then Close output Measured temperature < set temperature then Open output
Temperature setting		Open 1 action temperature setting : -40.0 ~ 100.0 °C (1 temperature set value < measured value) Close 1 action temperature setting : -40.0 ~ 100.0 °C (1 temperature set value > measured value) Open 2 action temperature setting : -1.0 ~ 100.0 °C (1 temperature + 2 temperature set value < measured value) Close 2 action temperature setting : -1.0 ~ 40.0 °C (1 temperature + 2 temperature set value > measured value)
Time setting		open 1 action ON time : 1 ~ 999 minute(sec) open 1 action OFF time : 1 ~ 999 minute(sec) close 1 action ON time : 1 ~ 999 minute(sec) close 1 action OFF time : 1 ~ 999 minute(sec) open 2 action ON time : 1 ~ 999 minute(sec) open 2 action OFF time : 1 ~ 999 minute(sec) close 2 action ON time : 1 ~ 999 minute(sec) close 2 action OFF time : 1 ~ 999 minute(sec)
Program setting		Control type selection : 1 action control/1action + 2 action control selection Input compensation : ± 10.0 °C Hysteresis : 0.1 ~ 25.0 °C Output ON time unit selection : min/sec selection Output OFF time unit selection: min/sec selection
Output	Open	Contact composition : 1 a Contact $\times$ 2, 250 V AC, 5 A (resistive load)
	Close	

A

Temperature
Controller

General specification

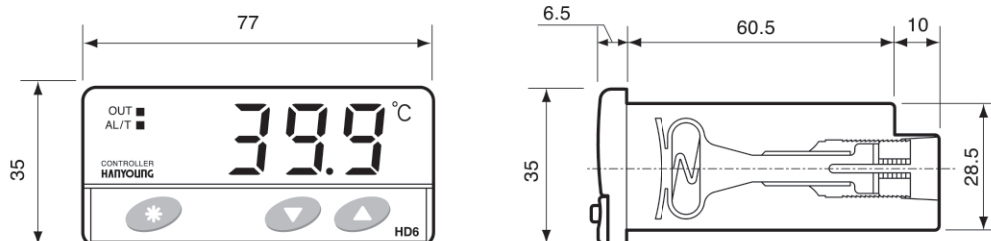
Power Supply Voltage	100 – 240 V AC 50 – 60 Hz, 10 – 24 V DC/AC 50 – 60 Hz
Voltage fluctuation	±10 % of the power supply voltage
Power consumption	5 VA max (220 V AC 60 Hz)
Ambient temperature	0 ~ 50 °C
Ambient humidity	35 ~ 85 % RH (without dew condensation)
Storage temperature	-25 ~ 65 °C
Vibration resistance	10 – 55 Hz, peak amplitude 0.76 mm for 2 min each in 3 axis direction
Shock resistance	300 ㉫, 6 each in 6 axis direction, 3 times
Weight	116 g

Range and input code

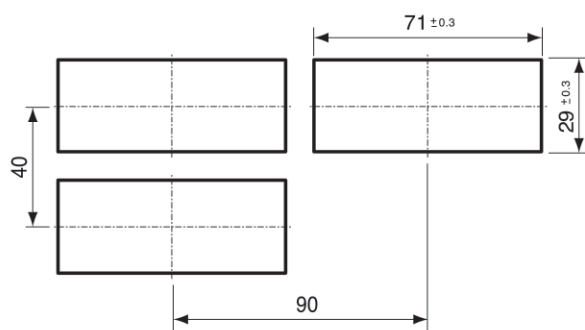
Classification	Code	Input type	Range(°C)	Accuracy
HANYOUNG NUX exclusive sensor	D	TH-540D	-50.0 ~ 150.0	±1 % of FS ±1 Digit
	N	TH-540N	-40.0 ~ 90.0	

Dimension and panel cutout (Unit : mm)

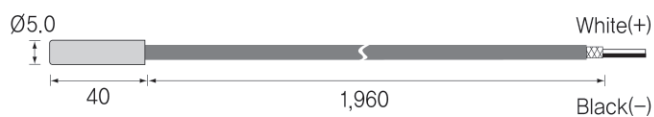
Dimension



Panel cutout



Sensor (TH540D/TH540N)



Connection diagram

