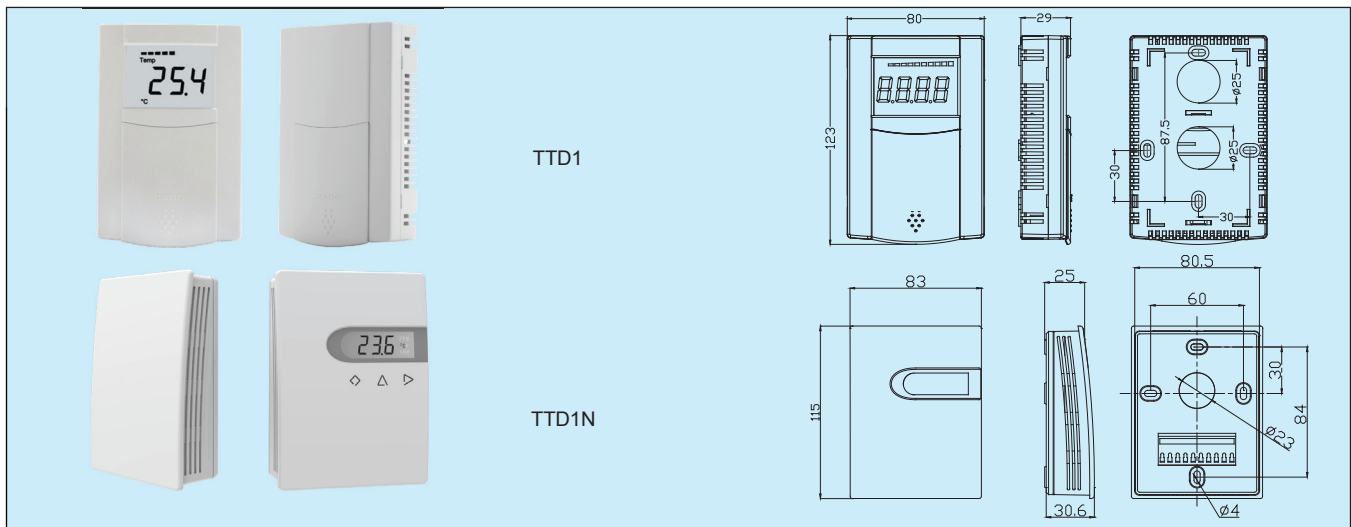# TTD1/TTD1N Wall Mount Digital Temperature Transmitter/Controller TEREN

TTD1

TTD1N

Applications & Features

- TTD1/TTD1N series are designed for indoor environment temperature measurement and control
- High performance digital temperature sensor and digital technology applied, ensure accurate measurement, fast response & good long term stability
- Multiple outputs selection, over voltage and reverse polarity protection, high reliability and anti-interference capability
- Optional relay for alarm or ON/OFF control
- Light and state of art housing, easy installation
- Wide working temperature range
- All electrical terminals are on the inside bottom, avoid any possible destroy to PCB when wiring(for TTD1N)
- LCD & function keys can set parameters and calibrate output, so that the product becomes a stand alone controller

Specifications

Sensor: Digital temperature sensor
Range: See models
Output: 4~20mA (3 wires),0~10VDC,RS485/Modbus[Note 1]
Output Load: ≤500Ω (current), ≥ 2KΩ (voltage)
Relay: TTD1:1×SPDT, 1A/30VDC or 0.5A/125VAC
　　　　 TTD1N: 1×SPST, 3A/30VDC,3A/250VAC
Accuracy: ≤±0.5°C@0~85°C,see accuracy curve
Power: 15~28VAC/15~36VDC
Display & Keys: Optional LCD display and function keys, see details on LCD & Keys operation
Display Resolution: 0.1°C
Work Temp.: -40~85°C, 0~95%RH (Non condensing)
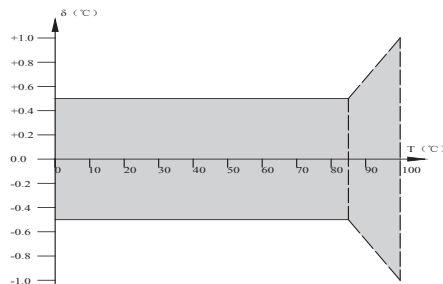**Storage Temperature:** -40~85°C
Housing: Fireproof ABS
Protection: IP30
Approval: CE
Optional Accuracy: 0.25°C @ -20 ~105°C
　　　　　　　　　 (Add "H" after part number)
Accuracy curve:

Analog error: max ±0.1% FS, after calibrated at 25°C
Analog output thermal effect: ±0.007 % FS/°C

Models

Model	TTD1/ TTD1N				Temp. transmitter/ controller
Output		1 B			4-20mA/0-10VDC 4-20mA/0-10VDC, RS485/Modbus
Range			1 2 7		0~50°C 0~100°C Others
Relay				0 1	N/A 1*SPDT[note 2](TTD1) 1*SPST[note 2] (TTD1N)
LCD& Keys					0 N/A / 1 LCD / 2 LCD & Keys

Note 1: the communication protocol is Modbus RTU

Note 2: Refer to working environment ambient guide GB/T4200 and WBGT etc, the relay default settings are ON-30.0°C/OFF-29.5°C,and also can be set through LCD & function keys.

LCD & keys (for TTD1)