# Temperature & RH Detector/Controller

# TKG-TH Detector/Controller

# **Features**

- ♦ Designed for real-time detection of temperature and relative humidity
- High accuracy sensors combined temperature and relative humidity together with the digital auto compensation
- External sensing probe designed for more accurate measurements, no influence from components heating
- Special white backlit LCD can be selected with displaying both actual humidity and temperature
- Smart structure for easy disassembly
- ◆ Three types optional: wall mounting, duct mounting and external sensor type
- ◆ Provide up to two dry contact outputs with each 5amp
- Friendly operation buttons for setup and operating
- ♦ Modbus RS485 communication optional
- ◆ CE-Approval





# **Typical Applications**

- ◆ High end HVAC systems
- ♦ Ventilation systems
- Detection and display temperature and RH measurements
- ◆ Control temperature and humidity devices
- Modbus communication systems
- ◆ Wireless receiving and transmission of temperature& RH

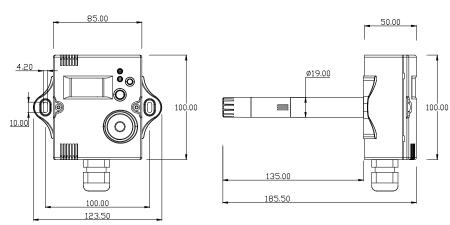
# Specifications

	Temperature	Humidity
Accuracy	±0.5℃ (20~40℃)	±4.5%RH (25℃, 15%-85%RH)
Measuring range	-20℃~60℃(default) 0℃~50℃ 0℃~60℃ selectable in orders	0 -100%RH
Display resolution	0.1℃	0.1%RH
Stability	±0.1℃	±1%RH per year
Storage environment	20℃-60℃, 5%RH~70%RH non condensing	
Connection	Screw terminals/ wire diameter:1.5mm²	
Housing	PC/ABS fireproof material	
Protection class	IP40	
Output	2X5Amp dry contacts	
RS485 interface (option)	Modbus RS485 interface optional	
Wireless module (option)	ZigBee protocol	
Power supply	24VAC±10% or 230VAC±10% selectable	
Power cost	230V: ≤2.8W; 24V: ≤2.0W	
Dimension	Wall mounting: 85(W)X100(H)X50(D)mm+65mm(external probe)X∅19.0mm  Duct mounting: 85(W)X100(H)X50(D)mm +135mm (external probe)X∅19.0mm	
Net weight	Wall mounting: 280g	
	Duct mounting: 290g	

# **Dimensions & Mounting**

#### **Duct mounted**

Probe Length 135.00mm
Probe Diameter Ø19.00mm
Installation Holes 100.00mm



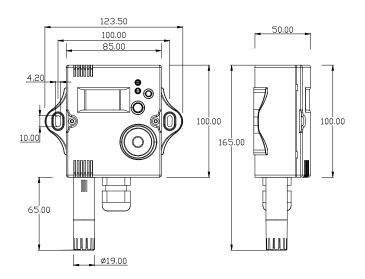
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#### Wall mounted

probe Length 65.00mm

Probe Diameter Ø19.00mm

Installation Holes 100.00mm



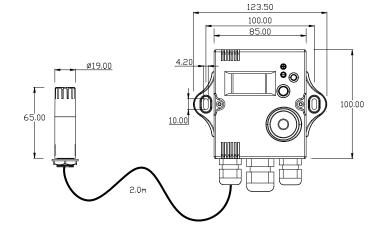
## External sensor type

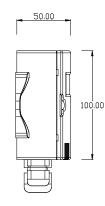
probe Length 65.00mm

Probe Diameter Ø19.00mm

Installation Holes 100.00mm

Connection cable 200.00mm





# Models Guide

## TKG-TH-A0CDY-Tab

## A: the sensor installation type

- 1: wall mounted with the external sensor in an adown probe
- 2: probe duct mounted
- 3: split sensor with 2 meters cable connection

#### C: relay dry contact output

- 0: no dry contact output
- 1: 1xdry contact output (for humidity control)
- 2: 2xdry contact outputs (for humidity and temperature control)

#### D: Communication option

- 0: no communication
- 1: Modbus RS485 interface
- 2: with ZigBee wireless module

## Y: power supply

F: 24VAC power supply

A: 230VAC power supply

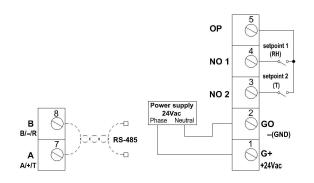
## -Tab: temperature range

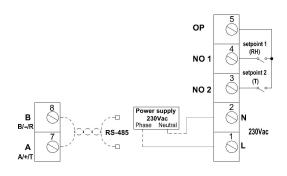
T26: -20°C~60°C (default)

T05: 0℃~50℃ T06: 0℃~60℃

Without the Tab: the temperature range is -20°C~60°C (default)

# Wiring Diagram





Power supply: 24VAC

Power supply: 230VAC

# **Shipping Information**

## Wall Mounting

Indiv. Ctn. Dim	180mm×130mm×60mm
Master Ctn. Qty	36
Master Ctn. Dim	51cm(L) X39cm (W) X37cm (H)
Master Ctn. Wt.	13KG

## **Duct Type**

Indiv. Ctn. Dim	255mm×130mm×110mm
Master Ctn. Qty	12
Master Ctn. Dim	44cm(L) X32cm (W) X32cm (H)
Master Ctn. Wt.	6.5KG

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