

# WALL TYPE

## T&H Transmitter

— 0-5VDC, 0-10VDC, RS485 OUTPUT —

Model No.: MTH100



# General Specifications

GS 19A16D01-01EN

TEMPERATURE HUMDITY  
HIGH QUALITY

MTH100

## Overview

MTH100 is single probe temperature and humidity transmitter, adopting original international advanced sensor module and high performance, single chip designed for temperature humidity air measurement indoor room, widely used in air T &H measurement as the integrated part in equipment and machine

## Feature

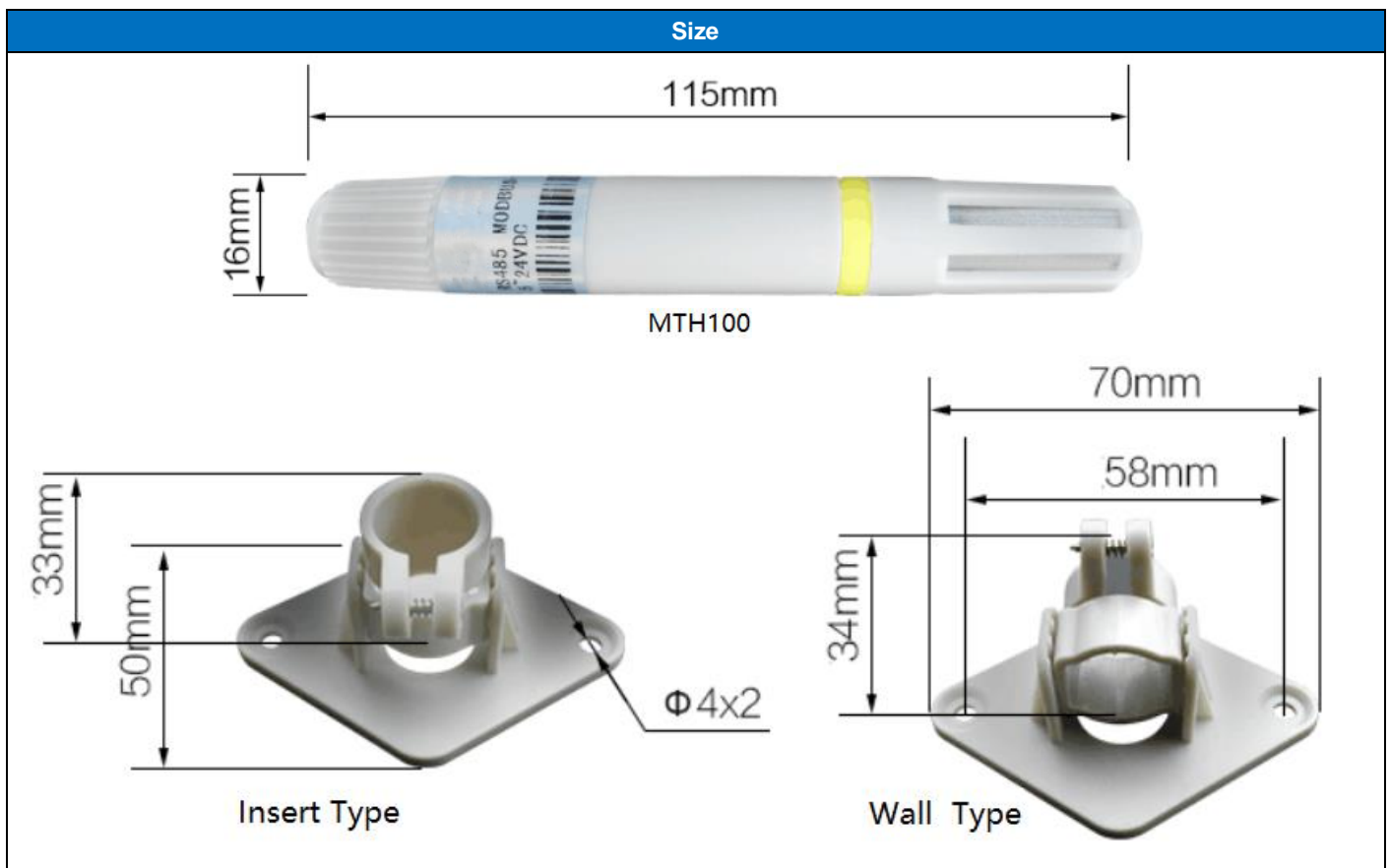
- High Accuracy, High Stability, Excellent sealing technology
- Measure range: T: -20 to 80°C, H: 0-100%
- Output: 0-5VDC, 0-10VDC, RS485 output
- Accuracy: T:  $\pm 0.3^{\circ}\text{C}$ , H:  $\pm 3\%$ ; Resolution: T: 0.1, H: 0.1%RH
- Long-term stability: T: < 0.04/year, H: < 0.5%RH/year
- Response time T: 6t (63%): min=2s, max=5s; H(90%): 2s
- Size: 115mm x16 (LXD)
- Wide power supply: 9-30VDC



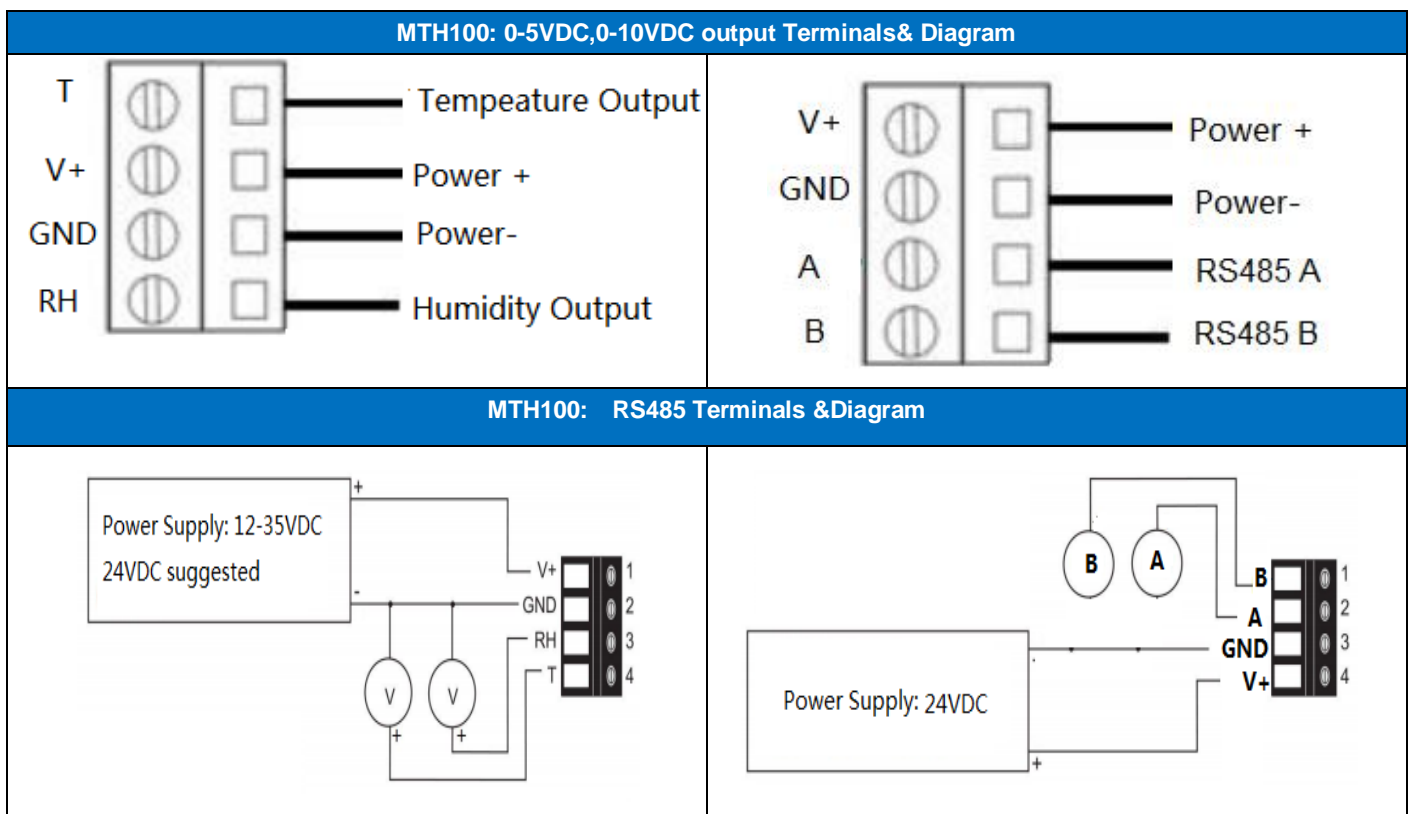
## Specification

Accuracy	T: $\pm 0.3^{\circ}\text{C}$ (Full range in average);	Power Supply	15-36VDC (4-20mA Output);
	RH: 3%RH (including non-linear, repeatability, hysteresis)	Power consumption	15mA
Long Stability	T: <0.04°C/year; RH: <0.05%RH/year	Probe Material	ABS
Range	T: -20 to 80°C;	Probe Type	Dust-proof (standard); water-proof
	RH: 0-99.9%	Installation	Wall Type
Resolution	T: 0.1°C, RH: 0.1%RH	Probe Size	115mmx16mm (LXD);
Response time	T: 6t(63%): min=2s, max=5s;	Terminals Size	1x2.5 mm <sup>2</sup> or 2x1.5 mm <sup>2</sup>
Load resistor	H (90% static air): 2second	Entry connector	M16×1.5mm
	<500ohm	Protection	IP54 (Probe)
Output	0-5VDC, 1-5VDC; RS485 output	Working Ambient	T: -40 to 80°C,
RS485 Protocol	Standard MODBUS-RTU protocol		H: 0-99.9%, no dew
Baud rate	9600; customized	Storage Temperature	10-50°C (0-125°C at peak)

## ■ Size (mm)

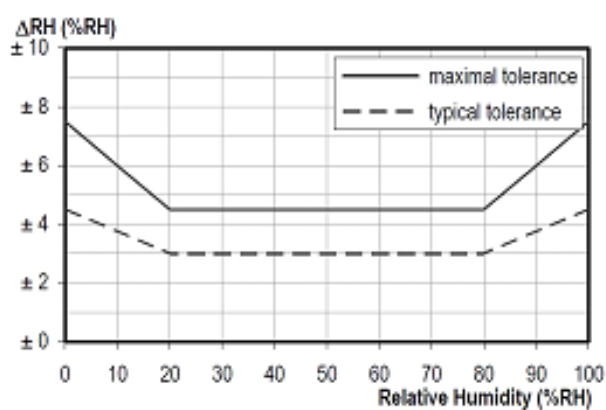
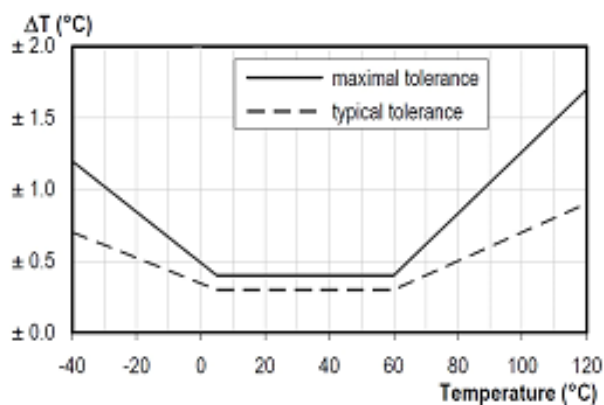


## ■ Diagram

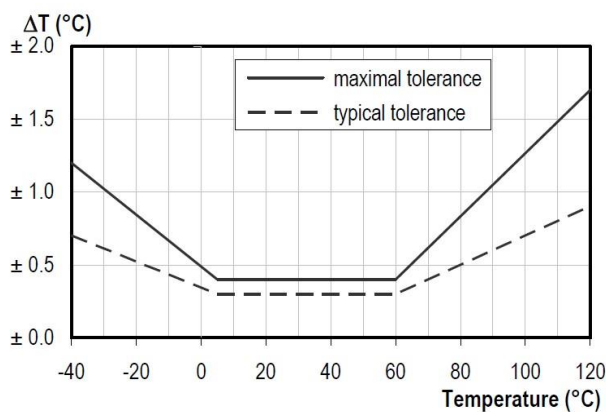
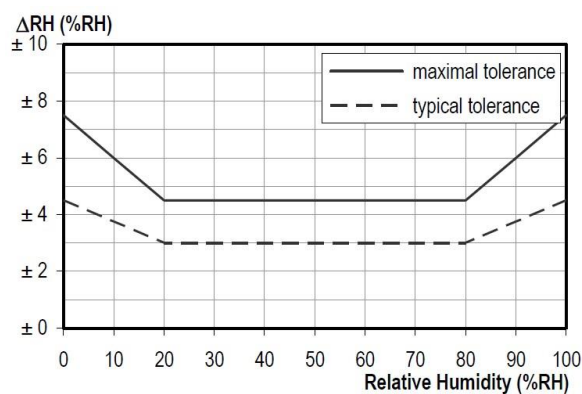


## Accuracy

Analog Output: 4-20mA, 0-5VDC, 0-10VDC



## RS485 Output



## Order Code

MTH100 temperature and humidity transmitter					
Order Code: MTH100-NNVN					Description
MTH100	-X	-X	X	X	MTH100 temperature and humidity transmitter
Type	-N				Wall Type
	-D				Duct Type
Measurement Type		N			Temperature and humidity
		T			Temperature only
		H			Humidity only
Installation		V			0-5VDC
		V2			0-10VDC
		R			RS485 output
Probe Type		N			Standard type, dust-proof
		W			Water-proof (special)