

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



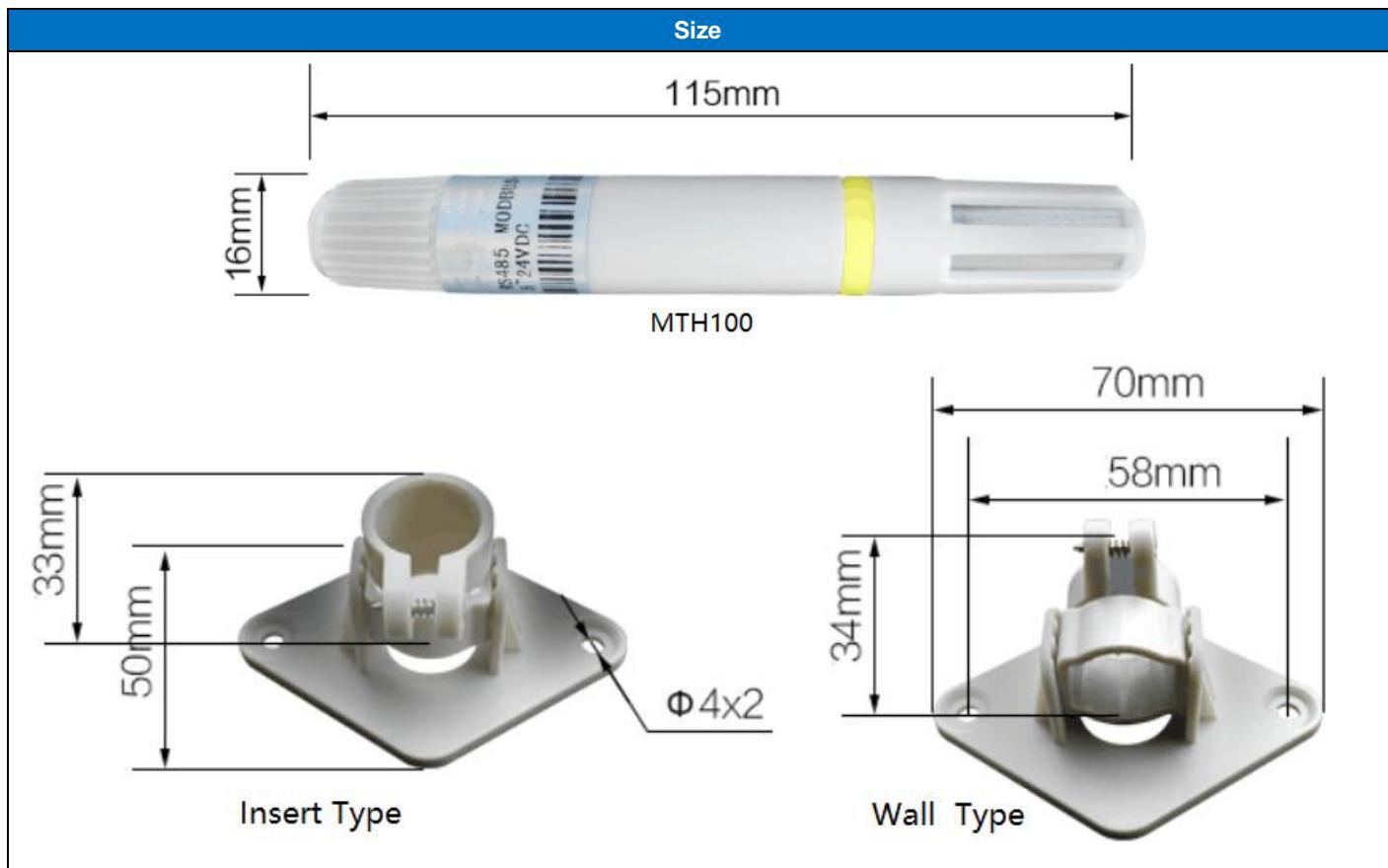
■ Feature

- 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:± 0.3°C, H:± 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

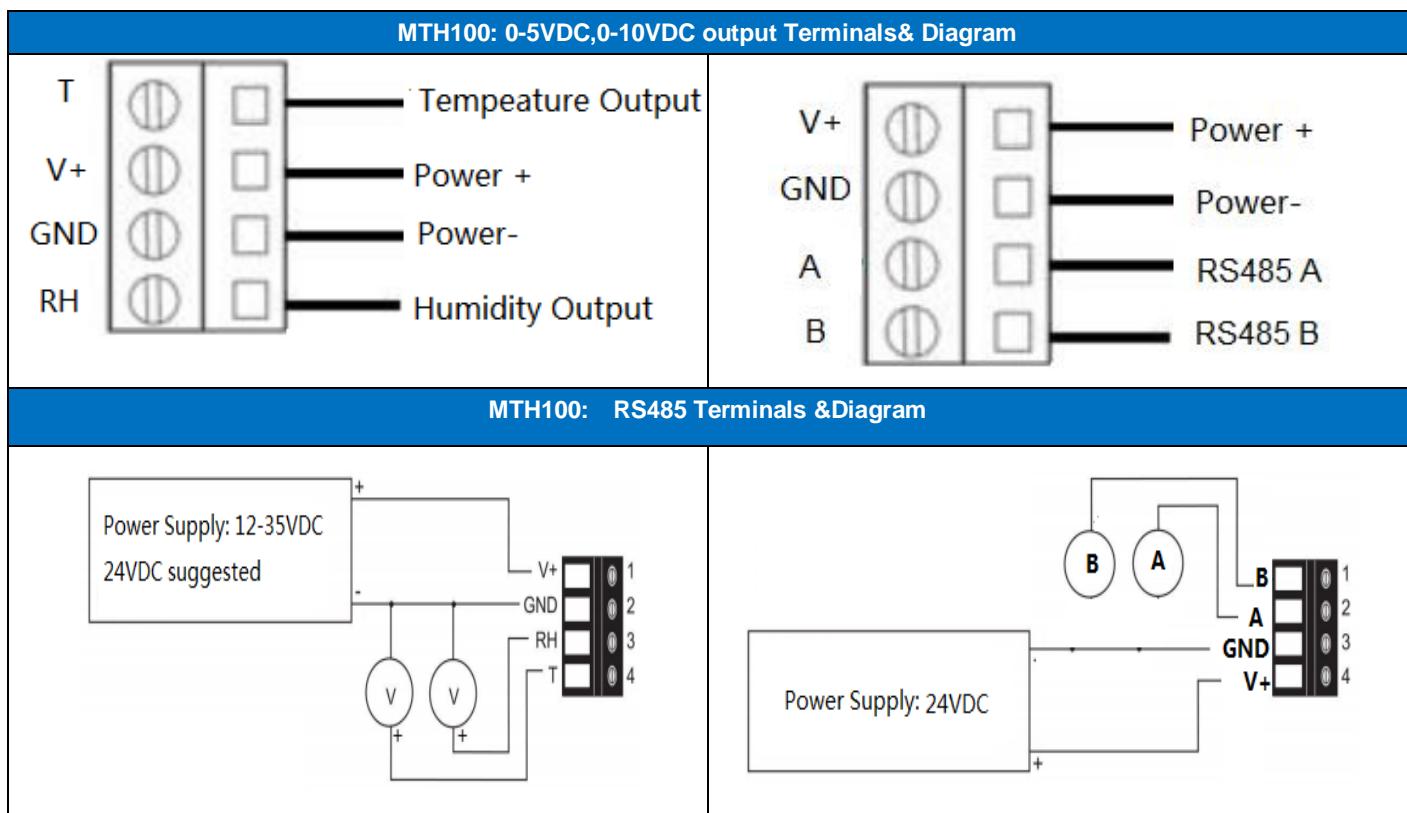
■ Specification

Accuracy	T:± 0.3°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; RH:0-99.9%	Probe Type	Dust-proof (standard); water-proof
Resolution	T: 0.1°C, RH:0.1%RH	Installation	Wall Type
Response time	T: 6t(63%): min=2s, max=5s; H (90% static air): 2second	Probe Size	115mmx16mm (LxD);
Load resistor	<500ohm	Terminals Size	1x2.5 mm ² or 2x1.5 mm ²
Output	0-5VDC, 1-5VDC; RS485 output	Entry connector	M16× 1.5mm
RS485 Protocol	Standard MODBUS-RTU protocol	Protection	IP54 (Probe)
Baud rate	9600; customized	Working Ambient	T:-40 to 80°C, H:0-99.9%, no dew
		Storage Temperature	10-50°C (0-125°C at peak)

■ Size (mm)

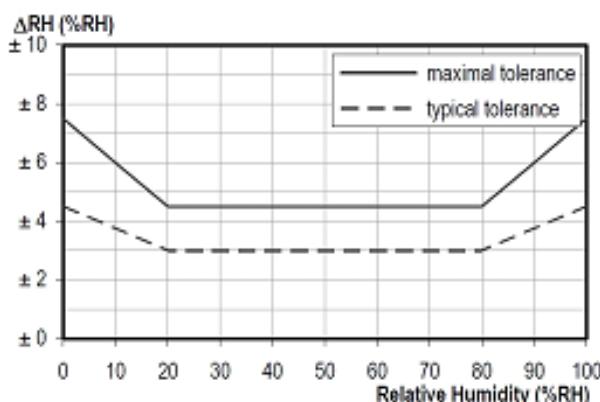
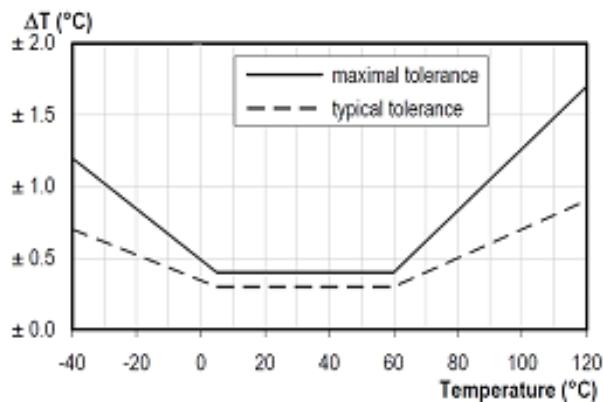


■ Diagram

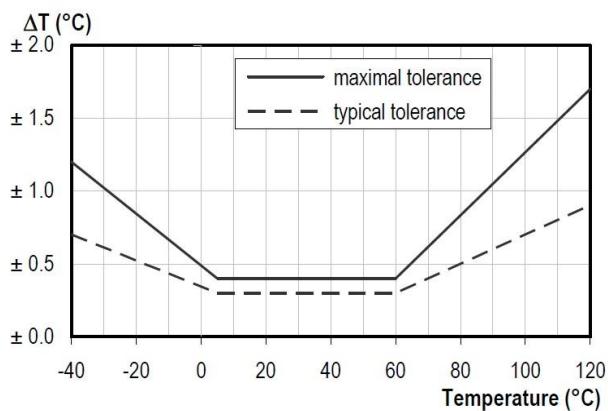
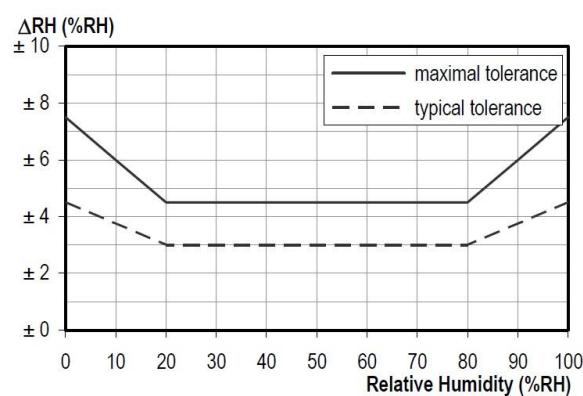


■ Accuracy

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



RS485 Output



■ Order Code

MTH100 temperature and humidity transmitter				
Order Code: MTH100-NNVN				Description
MTH100				MTH100 temperature and humidity transmitter
Type				Wall Type
				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)