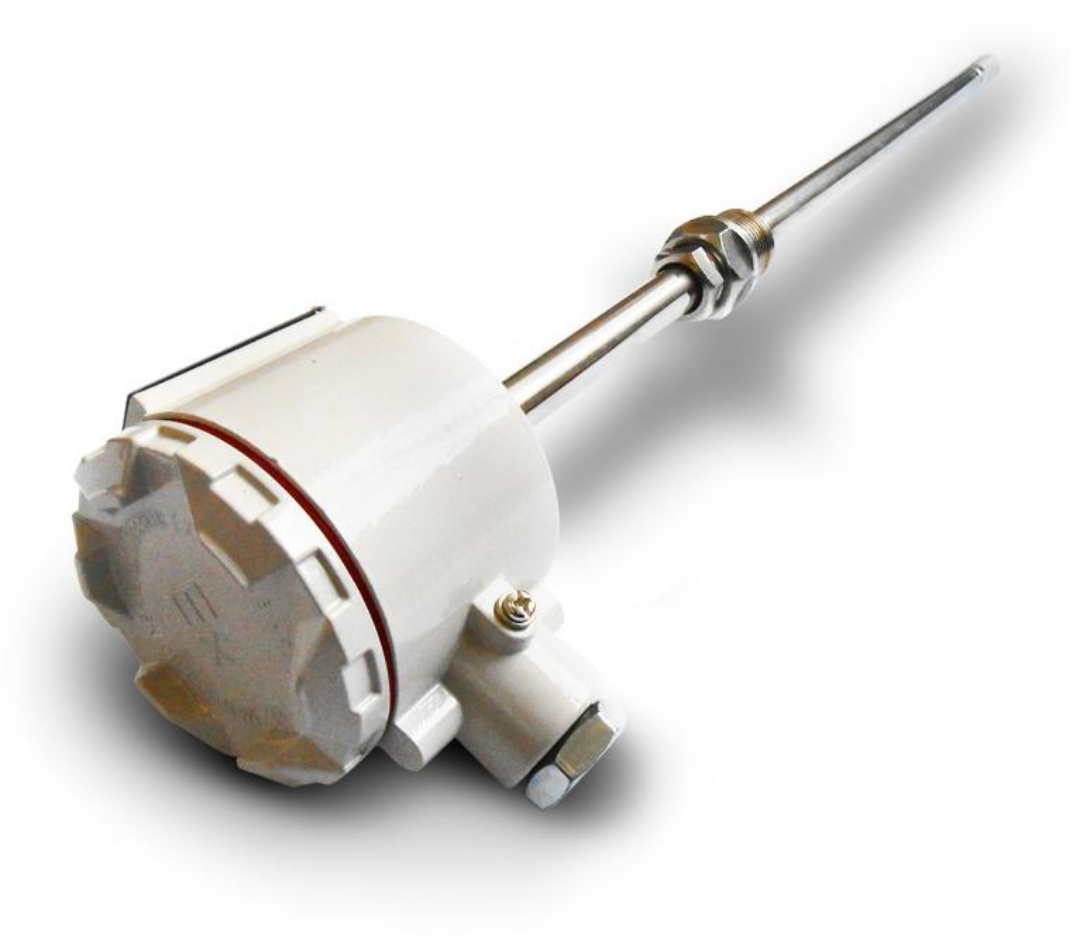
DUCT TYPE

T&H Transmitter

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

Model No.: MTH500H



General Specifications

GS 19A16D01-01EN

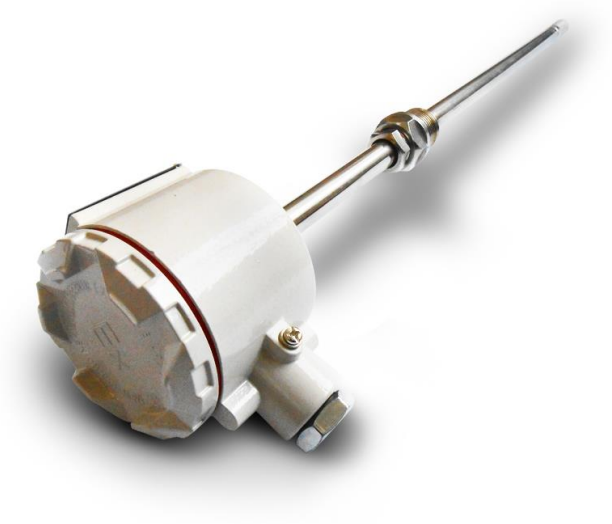
TEMPERATURE HUMDITY

HIGH QUALITY

MTH500H

■ Overview

MTH500H is a high temperature duct type temperature and humidity transmitter, adopting Swiss made advanced sensor module with high performance single chip design. Ideal for temperature and humidity measurement in **high air temperature environment applications.**:



MTH500H
Duct Type High Temperature
Air Measurement
Temperature Humidity Transmitter

■ Feature

- High Accuracy, High Stability; High sealing technology
- Probe: Stainless Steel, Head: aluminum alloy
- Measure range: T: 0 to 120°C, H: 0-100%
- Output: 4-20mA, 0-5VDC, 0-10VDC
- 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
- Temperature range can be set by inner DIN switch
- With offset function by built-in keys
- Stem length, thread size can be customized
- Wide power supply: 12-36VDC

■ Specification

Accuracy	T:±0.3℃ (Full range in average);	**Head Material**	aluminum alloy
	RH: 3%RH	**Probe Type**	Stainless steel
Long Stability	T: ＜0.04℃/year;	**Installation**	Duct Type
	RH: ＜0.5%RH/year	**Case Size**	89mmx110mmx77mm
Measured Range	T: 0 to 120℃; RH:0-99.9%	**Probe Size**	D:15mm, L:10,15,20,30,35mm, customized
T output range	0~50℃/ -20~80℃/ -40~60℃ / -20~120℃ Set by DIN switch	**Entry connector**	M20X1.5mm
Resolution	T: 0.1℃, RH:0.1%RH	**Thread size**	M27X2, customized
Load resistor	＜500ohm (4-20mA)	**Protection**	Electrical Case: IP65; Sensor: IP54
Output	4-20ma, 0-5VDC, 0-10VVDC; RS485	**Working Ambient**	T:-40 to 120℃, H:0-99.9%, no dew
Power Supply	12-35VDC; Consumption: 1VA	**Storage Temperature**	-40 to 80℃; 20~60%RH

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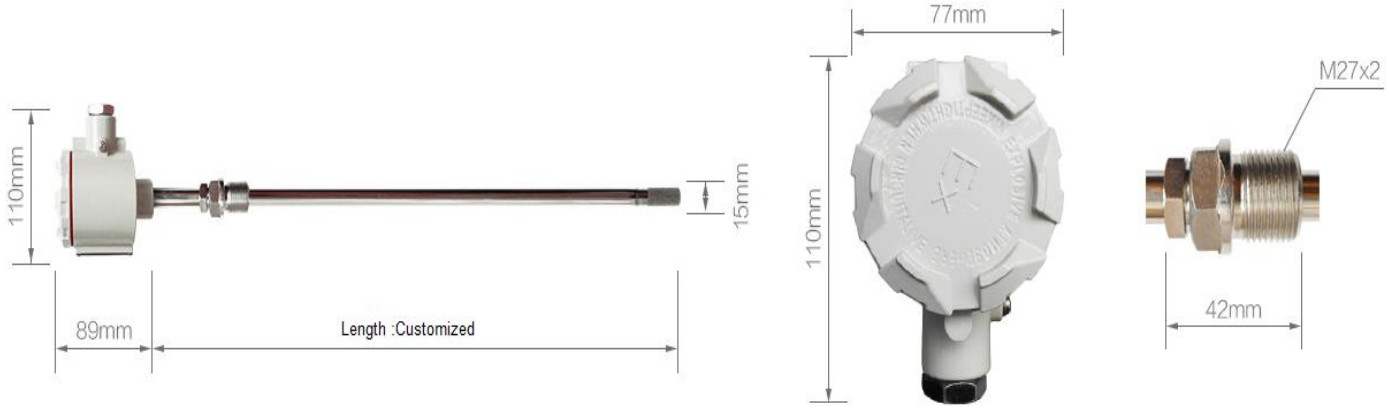
Specification



Diagram

MTH500H: 4-20ma output Terminals

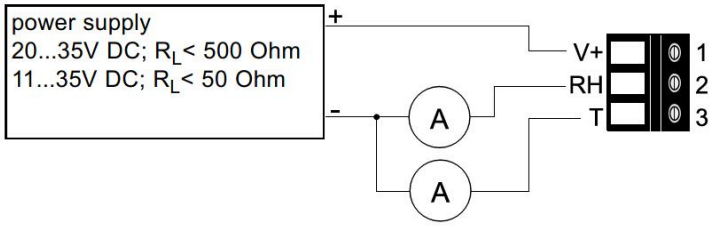
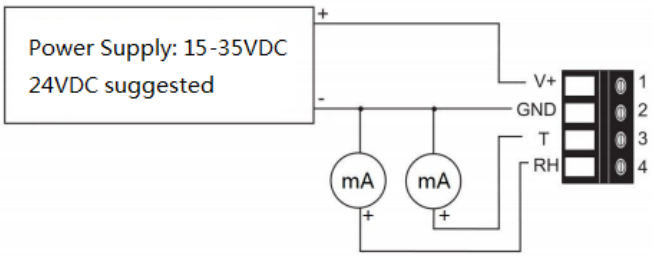
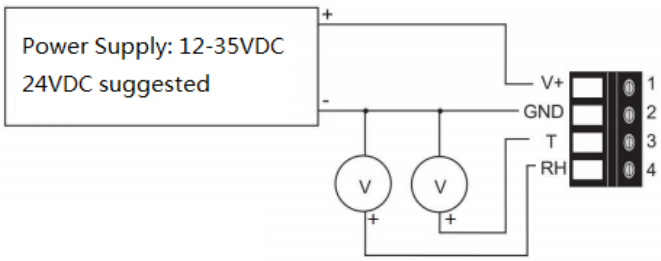


Diagram: 4-20mA,0-5VDC, 0-10VDC Terminals





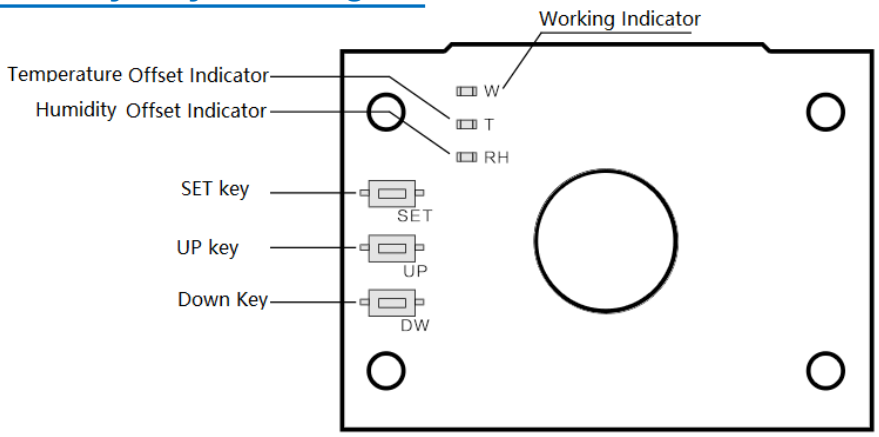
Temperature Output Range Setting

Temperature Range Setting

DIN Switch	P1	P2	P3	P4
Range	0 to 50℃	-20 to 80℃	-40 to 60℃	-20 to 120℃

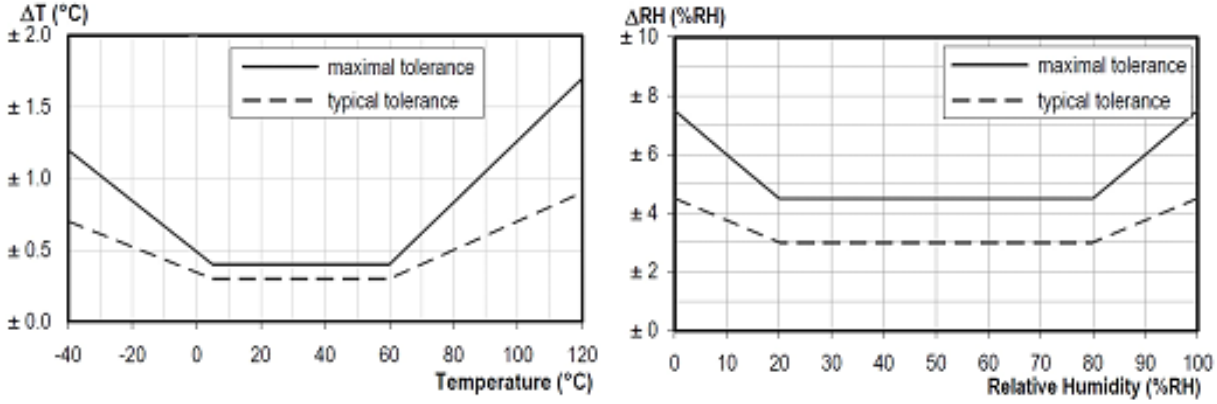
△ Temperature Range Setting

Offset Function by Keys Setting



Accuracy

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



Order Code (■ Indicated Standard Stock Item)

MTH500H temperature and humidity sensor				
Order Code: MTH500H-AN10				**Description**
MTH500H	-X	X	XX	**MTH500H Duct Type high temperature and humidity sensor**
Indicator	■ -A			4-20mA
	-V			0-5VDC
	-V2			0-10VDC
Thread Size		■ -N		M27X2, standard
		-C		Customized, please advise the exact thread size you need
Probe Length			10	Probe length: 10cm
			15	Probe length: 15cm
			20	Probe length: 20cm
			■ 30	Probe length: 30cm
			35	Probe length: 35cm
			50	Probe length: 50cm
			100	Probe length: 100cm
			C	Customized, max. 1m

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