

Installation Guide

Temperature and Humidity Transmitter

Model KTH500

1.0 GENERAL INFORMATION

Every model KTH500 has been tested and calibrated before shipment. The installation guide shall be read before commissioning the equipment, which is part of the scope of supply and serves for ensuring proper handling.

2.0 TECHNICAL DATE

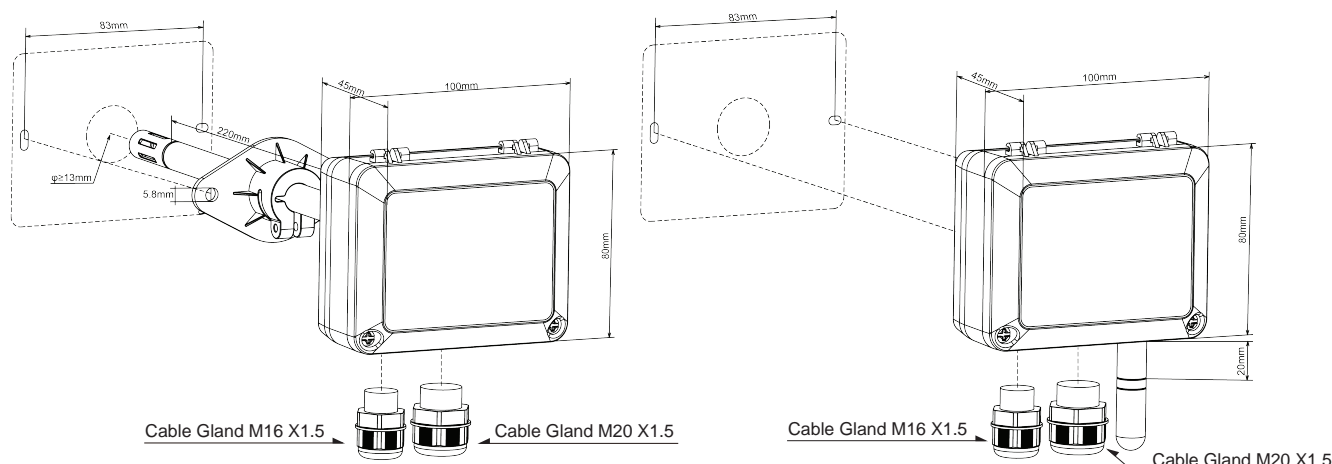
Model	KTH500
Power Supply	16-30V DC (2 wire 4-20mA)
	16-30V AC or V DC (0-5V/0-10V/RS 485)
Output	4-20mA / 0-5V / 0-10V/ RS 485
Operating Temp	-35...+80°C
Storage Temp	-40...+80°C
Operating Humidity	0 ... 100 %RH
Temperature Range	DIP switch
Display	Backlight LCD
Maximum Wind / Flow Speed	30 m/s
Electromagnetic Compliance	EN61326-1, Industrial Environment
Housing Material	PC+GF (UL-V0 approved)
Ingress Protection	IP65 / NEMA 4
Cable Gland	M16*1.5 and M20*1.5

Measurement Performance

Temperature	
Measurement Range	-35 ... +80 °C
Accuracy	0.1°C (20-60°C)
Temperature Dependence	±0.01 °C/°C
Relative Humidity	
Measurement Range	0 ... 100 %RH
Accuracy	2% (0-90% @25°C)
	3% (90-100% @25°C)
Stability in Typical HVAC Applications	±1 %RH/year

3.0 PRODUCT DESCRIPTION

3.1 Dimensions



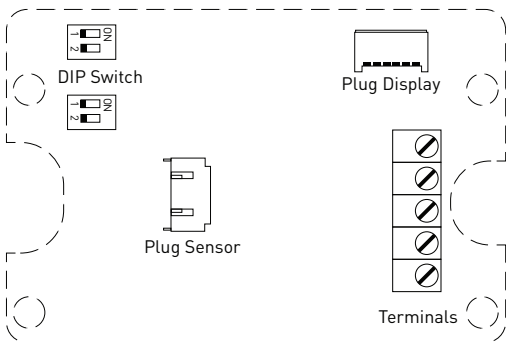
A: Duct Mounted

B: Wall Mounted

M20 cable gland is non-standard and needs to be purchased separately

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3.2 Components



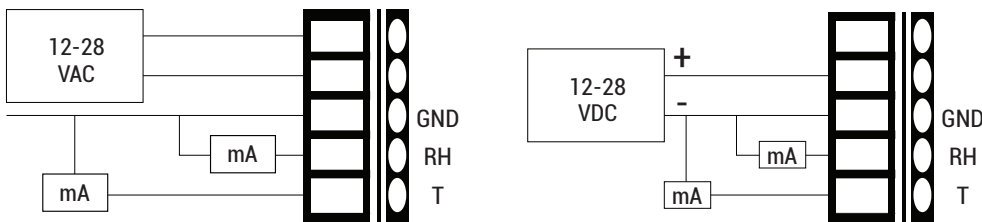
3.3 DIP switch setting

SW1:		SW2:	
1	0	1	0
1	0	1	0
00: 0-5V		00: -35~+75°C	
1	0	1	0
1	0	1	0
01: 0-10V		01: -35~+75°C	
1	0	1	0
1	0	1	0
10: 4-20mA		10: 0~+50°C	
1	0	1	0
1	0	1	0
		11: 0~+80°C	

NOTE: ⚠

Please open the shell gently to avoid pulling the connecting cable during installation.

3.4 Diagram



4.0 QUALITY ASSURANCE

The company provides guarantee for the quality of products in materials and manufacturing, and is applicable to the following conditions and scope. If the following circumstances are involved, the company shall be responsible for free maintenance or replacement of the problems caused by manufacturing.

1. The product is not used improperly, stored improperly or accidentally damaged. The user has no wrong wiring, incorrect installation or maintenance, or does not violate the instructions provided by the company to use it.
2. The product has not been repaired or replaced by the company or designated maintenance personnel.
3. After the inspection of the company, it is confirmed that the problems in product materials or manufacturing are caused by normal installation, use and maintenance.
4. Please inform us in advance and prepay the freight before the products are returned to our company.

Unless specifically stated in the product usage instruction or quality assurance or signed by authorized personnel of the company, the company's temperature and humidity transmitter products shall provide a one-year quality assurance from the date of sale.

If there is any problem with the products during the warranty period, the company shall be responsible for repairing or replacing the products.

If the product can not be repaired or replaced, we can see the return of the product payment.

In any other case, the liability of the company is limited to the return of the payment.

In no case shall the company be liable for any accident or chain loss caused by failure to fulfill the commitment or the installation of its products.

No agent or person is authorized to provide any other warranties other than the above, or undertake that the company shall bear any other responsibility in connection with the sale of its products.