H7080B
TEMPERATURE/ HUMIDITY DUCT SENSOR

- 4~20mA/ 0~10VDC or resistance output for temperature
- 4~20mA/ 0~10VDC output for humidity
- Duct mounted
- Excellent linearity
- Good long term stability
- High reliability
- Wide sensing range
- Easy installation

Application

H7080B series duct mounting humidity and temperature sensors are designed for environmental monitoring and control applications in industrial, commercial and general building. These sensors can be used for discharge, or return air control.

Models

OS Number	Humidity Output	Humidity Accu racy	Temperature Output Type	Temperature Range
C7080A3240	NA	NA	4~20mA/0-10 V	-1 0℃~40℃
C7080A3270	NA	NA	4~20mA/0-10 V	0℃~70℃
H7080B3102	4~20mA/0-10V	±2%	Pt1000	0℃~50℃

Technical Specification

Relative Humidity

Measurement Range	0~100%RH
Output	4-20mA or 0~10VDC
Accuracy	2%, 3%, 5%RH (25 , 20~80%RH) 5%, 9%RH(25℃, 0%~20% and 80%~100%RH)
Long Term Stability	1% RH per year

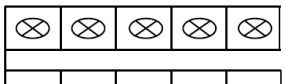
Temperature

Temperature Sensor	NTC10K, NTC20K, Pt1000
Measurement Range:	0~50 (resistance output)-10~40or 0~70℃ (transducer)
Output:	4~20mA or 0~10VDC NTC10K, NTC20K, Pt1000
Accuracy:	±0.2K at 25℃ for NTC10K sensor ±0.2K at 25 for NTC20K sensor ±0.3K at 0℃ for Pt1000 sensor ±0.5 ℃(-10~40 ℃ or 0~70℃) for transducer
Power Supply:	24 VAC ±15% /24 VDC ±10%
Current Output Load:	500 Ohms Max

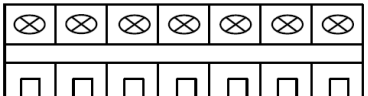
Voltage Output Load	10K Ohms Min
Current Consumption	DC 70mA Max, AC 190mA Max
Working Temperature	-30℃ ~+70℃
Transport and Storage Temperature	-4 0℃ ~+70℃
Housing Material	Plastic (PC-ABS) Flame retardant acc. with UL94-V0
Protection Standard	IP54
EMC Conformity	EN 61000-6-1 EN 61000-6-3 EN 61000-3-2 EN 61000-3-3

Wiring

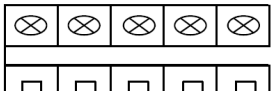
- For temperature output model:



- For temperature sensor & humidity output:

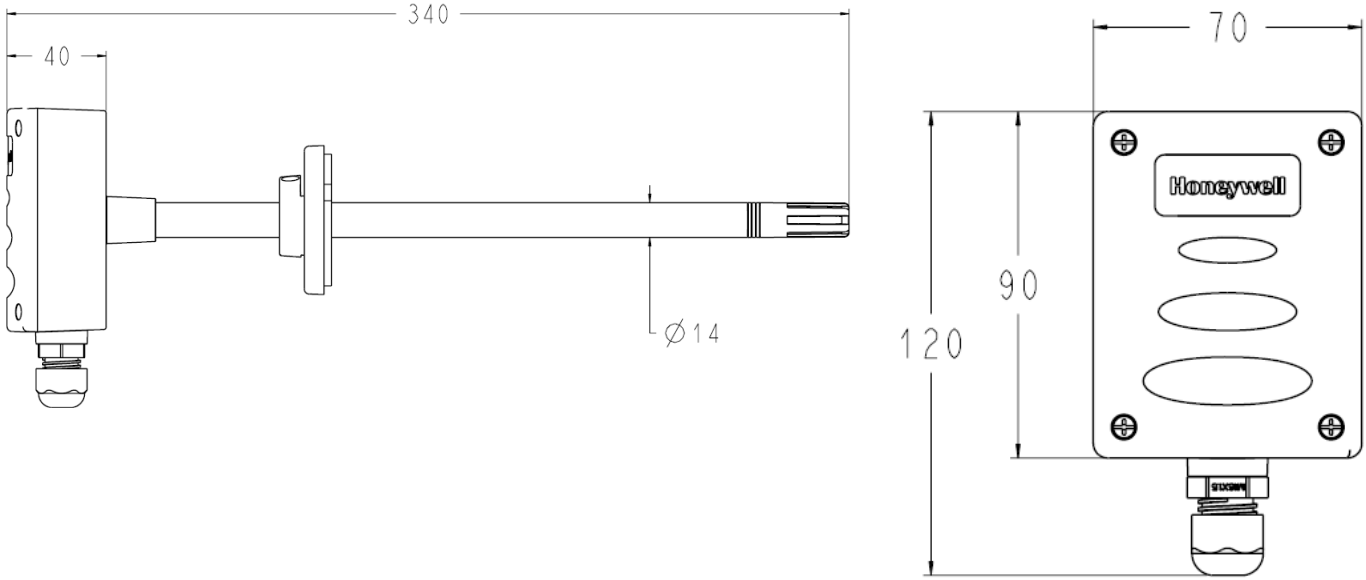


- For temperature & humidity output model:



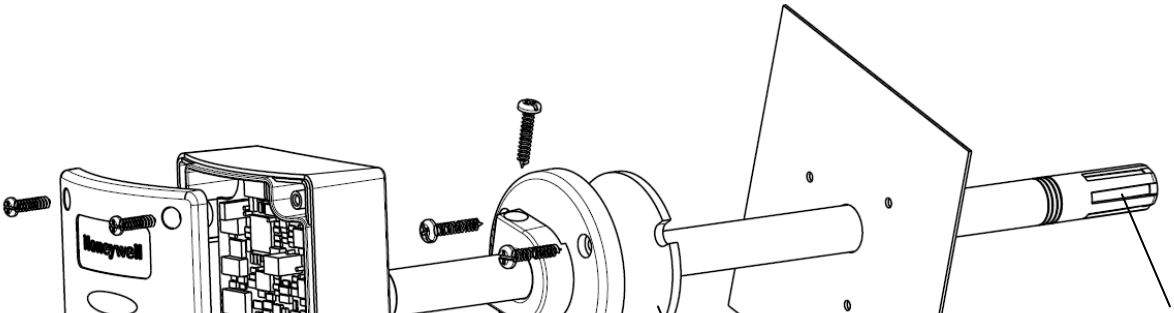
Dimension

Dimension in mm



Installation

Dimension in mm



INSTALLATION:

- Drilling a mounting hole on the duct near measuring point.
- Use enclosed screws to install the flange with gasket on' the duct. Insert the probe pipe into flange and duct.
- Fix the probe pipe on the flange by enclosed screw. (Note: Plug face to the bottom direction)
- Unscrew & open the front cover of the product.
- Lead wire from DDC or PLC panel through plug. Using screw driver to connect each wire to the terminals of the transducer module according to field wiring diagram.
- Tighten the waterproof plug around the wires.
- Put front cover back and tighten front cover by screws.

ATTENTION:

Absolutely avoid extreme mechanical and unspecified strain.

When using a 24 VAC transformer, use an isolated Transformer (Class II). If sharing the transformer with your controller, valve, actuator, or any other device, be sure to connect all of the devices with the proper polarity, since most controllers are earth grounded. Failure to do so may result in damage to the transducer, your controller, or any other devices that are attached due to a ground loop problem.

The product is equipped with stainless steel filter: since the sensor is an ESD-sensitive device, you should avoid touching the sensor cap during operation.
For maintenance purposes it is recommended, that you observe the valid ESD-safety precautions!

Please don't use in corrosive environment.

Instrukart Holdings

India Toll Free : 1800-121-0506 | Ph : +91 (40)40262020
Mob +91 7331110506 | Email : info@instrukart.com
#18,Street-1A, Czech Colony, Sanath Nagar, Hyderabad -500018, INDIA.

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