

HUMIDITY DETECTOR HD-500-V

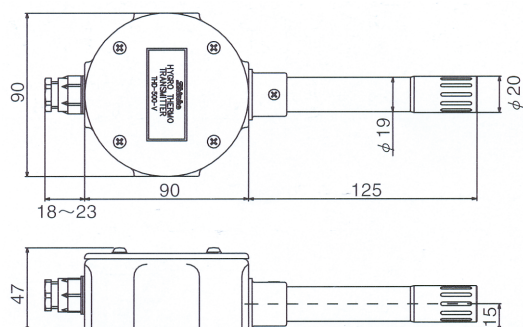
- The sensor unit uses a compatible plug-in type design, and replacement is easy.
- A variety of receiving instruments (indicators, controllers, recorders) are available.
- It is ideal for applications such as biotechnology, proofing cabinet, mushroom cultivation, vegetable preservation, grain storage, wood drying, food-related uses, scientific instruments, air conditioning systems, and plastic greenhouses.



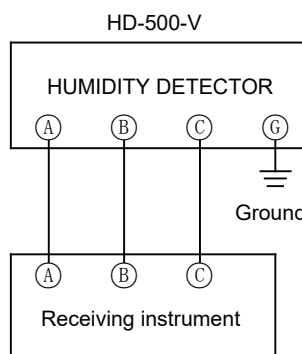
■ Specification

Measuring range	5 to 90 %RH
Measuring method	Electrostatic capacity variation type
Accuracy	Within ± 3 %RH (Within the range of 20 to 80 %RH at 15 to 55 °C) Within ± 4 %RH (Within the range of 20 to 80 %RH at 0 to 65 °C) Within ± 5 %RH (Within the range of 0 to 100 %RH at 5 to 45 °C) Within ± 6 %RH (Within the range of 20 to 80 %RH at 65 to 75 °C) Within ± 8 %RH (Within the range of 0 to 100 %RH at 0 to 80 °C)
Response characteristics	Approx. 20 seconds [Time to reach 90% of 30 $\leftrightarrow$ 80 %RH] However, air flow 5 l/min (0.16 m/s)] (When water-proof filter is mounted to the sensor chip section)
Hysteresis	Approx. 0 %RH (stability time, 20 minutes)
Input impedance	1 M Ω or more
Output	0 to 1 V DC (Linearly corresponds to 0 to 100 %RH)
Supply voltage	5 V DC Within ± 0.5 %
Length of protective tube	125 mm
Mounting	Wall surface mounting
Material	Case: Steel sheet zinc plated, Color: Metallic silver coating Protective tube: SUS304 Sensor cap: Polyacetal, Color: Black
Operating temperature range	0 to 80 °C
Storage environment	-20 to 60 °C, 5 to 90 %RH (non-condensing)
Weight	Approx. 450 g
Accessories	Instruction manual: 1 copy Fixing screws (Material BS) MN $\oplus$ 4 x 10 mm: 2 pieces Washers (Material BS) WB-4: 2 pieces

■ External Dimensions (Scale: mm)



■ Terminal Arrangement



- A: Power supply to the humidity sensor 5 V DC (+)
B: Output of the humidity sensor 0 to 1 V DC (corresponds to 0 to 100 %RH.) (+)
C: Humidity output, common power source (-)
G: Ground

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