# BKC AT&RH



## Overview

The BKC – AT & RH sensor is a high-precision
device designed for professional measurement of air temperature and relative humidity.
It features a built-in waterproof, anti-UV shelter for reliable outdoor performance.
Ideal for use in agriculture, forestry, meteorology**,** as well as climate chambers, warehouses, and other environmental monitoring applications.

This model can optionally be equipped with an 11-plate radiation shield (BK95-01) to protect the sensors from solar radiation and rain**,** ensuring accurate and stable readings over long-term outdoor use.

## Features & Application

| FEATURES | APPLICATIONS |
|---|---|
| • Hight sensitivity, Fast response time | • Environmental monitoring |
| • Long service life, Low consumption | • Storage and warehousing |
| • Good Stability of output High temperature and high | • Forestry |
| • High temperature and high humidity environment for long -term use. | • Greenhouses |
| • Can integrate Temperature Humidity, Air pressure at the same time. | • Agriculture |

## TECHNICAL SPECIFICATIONS

| Item | Technical Specification | |
|---|---|---|
| | Temperature | Humidity |
| Range | - 40 to +85℃ | 0-100%RH |
| Type | PT100,RTD | Capacitive |
| Resolution | 0.01℃ | 0.1%RH |
| Accuracy | ±0.1℃ | <1%RH |
| Supply | 5VDC, 12-24VDC | |
| Output Signal | 4-20mA,0-5V,0-10V,RS485(MODBUS) | |
| Current Consumption | <20mA | |
| Stability | Temperature:±0.01 ℃(2year): Humidity±1 %RH RH(2year) | |
| Operating Temperature | - 40 to +85℃ | |
| Ingress Protection | IP65 | |
| Weight(unpacked) | 120g | |
| Probe material | ABS | |
| Radiation Shield | BK95-01, 11 plates U-bolt for dia 25.4 mm tubes. | |

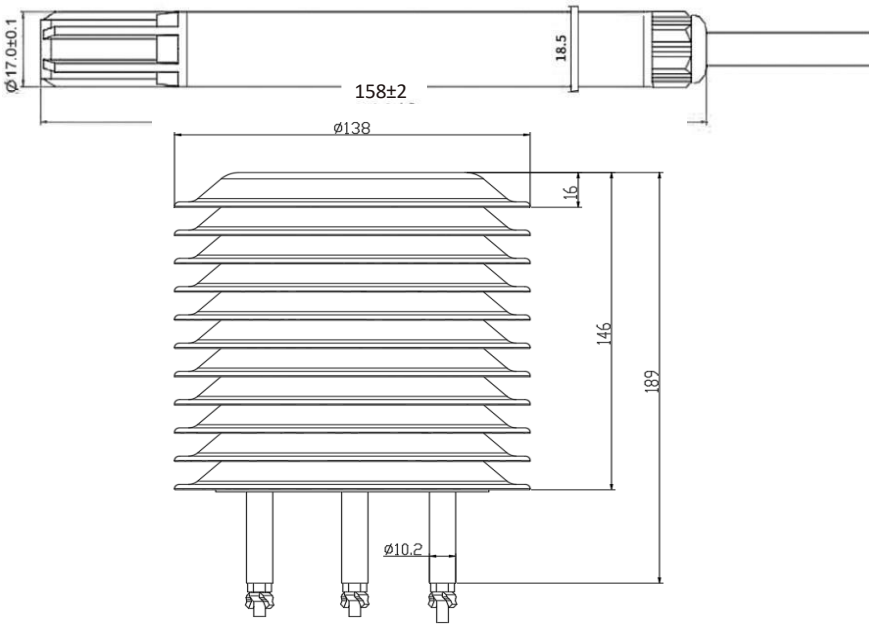
ISO 9001:2015

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The BK95-01 (11 Plate Radiation Shield) is designed to protect environmental sensors from solar Radiation and precipitation, which can affect sensor accuracy. Its optimized plate geometry and material enable natural air ventilation, ensuring accurate and reliable data under all weather conditions.

## Dimensions

Unit: mm




### Mounting

1. Install the product in stable environment area, avoiding direct sunlight, and keeping it from windows air-conditioning, heating and other equipment. Otherwise it will cause measurement inaccuracies, the installation height should be 1.5m above the ground.
2. Fixing rail is optional.

