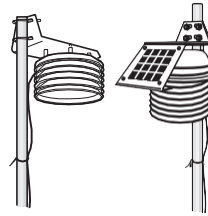


Temperature/Humidity Sensors



BKC-AT&RH with Accessories

The Temperature/Humidity Sensors includes temperature and humidity sensors and a passive solar radiation shield or a 24-Hour Fan-Aspirated Radiation Shield. The Temperature/ Humidity Sensor measures relative humidity and air temperature. The passive solar radiation shield is made of a Proprietary plastic designed for high thermal reflectance and low thermal conductivity. The 24-Hour Radiation Shield includes a solar-and battery-powered fan that pulls air up through the shield and over the sensors for highest Temperature accuracy.

General

Operating Temperature.....	..-40°to+150°F(-40°to+65°C)
Storage Temperature.....	..-40°to+158°F(-40°to+70°C)
Sensor Type:	
Temperature	PN junction silicone diode
Relative Humidity.....	Film capacitor element
Cable Length	25feet(7.6meters)
Dimensions	
6380.....	1"highx9.5"widex7.8"deep(206mmx241mmx198mm)
6382.....	8.1"highx9.5"widex7.8"deep(206mmx241mmx198mm)
Weight	
6380.....	3.5lbs.(1.6kg)
6382.....	6.6lbs.(3.0kg)

Sensor Output

Relative Humidity

Range.....	1to100%RH
Accuracy.....	±2%
Drift.....	<0.25%peryear

Temperature(Air only)

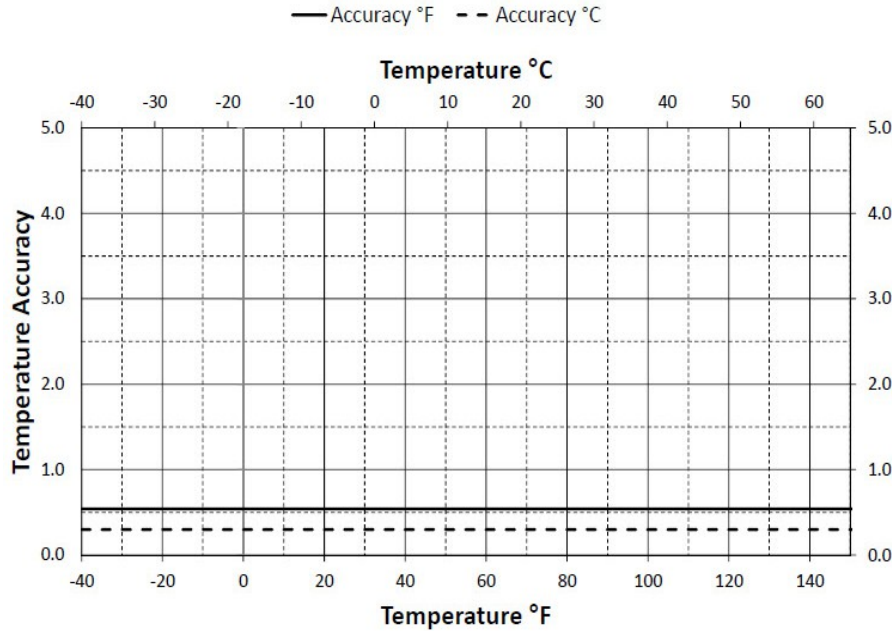
Range.....	..-40°to+150°F(-40°to+65°C)
Sensor Accuracy.....	±0.5°F(±0.3°C)See Graph Below



ISO 9001:2015

BKC WeatherSys Pvt. Ltd.
CIN#U74140DI1998PTC095066

Corporate Office: H-135, Sector 63, Noida, Uttar Pradesh 201307, India
T: +91 120 4632504, 507 **F:** +91 120 4632511 **E:** weather@weathersysbkc.com
Registered Office: 109 Kusal Bazar, 32-33, Nehru Place, New Delhi 110 019 (INDIA)
www.weathersysbkc.com



Radiation Induced Error..... +4°F(2°C) at solarno on (insolation=1040W/m2,avg.windspeed ≤2 mph (1 m/s)) (reference: RM Young Model 43408 Fan-Aspirated Radiation Shield)

24-Hour Fan-Aspirated Radiation Shield

Aspiration Rate
 Solar-powered, full sun 190ft./min.(0.96m/s)
 Battery only 80feet/min(0.4m/s)
 Radiation Induced Temperature Error +0.6°F(0.3°C) at solarno on (insolation=1040W/m2,avg.wind speed ≤ 2 mph (1 m/s)) (reference: RM Young Model 43408 Fan-Aspirated Radiation Shield)
 Battery Charge/Operating Temperature 32°to+113°F(0°to+45°C)
 Battery Discharge/Storage Temperature 4°to+140°F(-20°to+60°C)
 Fan Primary Power Solar panel
 Fan Secondary Power Oneortwo 1.2vNiMHC-cells



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