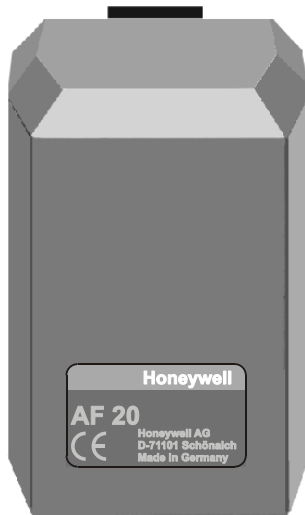


## AF20 OUTDOOR TEMPERATURE SENSOR

### PRODUCT DATA



### APPLICATION

Outdoor temperature sensor to detect outside temperature for weather-related supply air temperature control.

### FEATURES

- Sun blinds to protect against radiant heat

### SPECIFICATIONS

<b>Sensor element</b>	NTC thermistor
<b>Resistance</b>	20 Kohm at 25 °C
<b>Operating range</b>	-30...+60 °C
<b>Dimensions (H x W x D)</b>	85 x 65 x 70 mm
<b>Housing</b>	Plastic (ABS)
<b>Mounting</b>	Wall mounting
<b>Electrical connection</b>	

Electrical terminals for 2 x 1.5 mm<sup>2</sup> cable

**Protection class** IP 30, DIN 40 050 or IEC 144

For technical information on the NTC thermistor, see "Temperature Sensors" (EN0B-0476GE51).

### DIMENSIONS

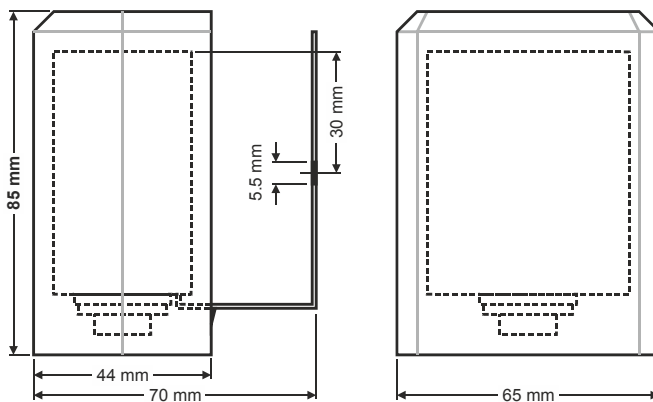


Fig. 1. Dimensions (mm)

## LOCATION OF DEVICE

The most important rule for locating the outdoor temperature sensor is that it should have the same temperature, wind, and solar conditions as the occupied rooms. In most cases, the outdoor temperature sensor is to be mounted on the coldest side of the building (N–NW side) so as not to be affected by direct sunshine. This is to ensure that it will be warm enough in each room of the house. Only when the windows of all the rooms to be regulated face in the same direction can the sensor element be mounted onto the outside of this same wall. This can also be the south side of the house. The outdoor temperature sensor's protective housing prevents the sun's rays from affecting the sensor. If the sensor has been mounted on the south side of a house with large windows facing in this direction, it is recommended that you remove the sun guard. Do not mount the outdoor temperature sensor in a protected area, such as a wall niche or under the balcony. It should be put on an open façade so that it can detect all weather conditions. Avoid mounting the sensor above doors and windows since warm air movements may otherwise influence the measurement results. The temperature sensor should be mounted about 2/3 the way up the wall on buildings of not more than 3 stories; on taller buildings, between the second and third stories.

## MOUNTING

Press in the clasp (R) and pull off the top (H). Pull the clip (B) out of the housing (G). Screw on the clip (B) and put on the housing. To wire, unscrew the lid. Slide the top (H) over the housing until the clasp is firmly attached.

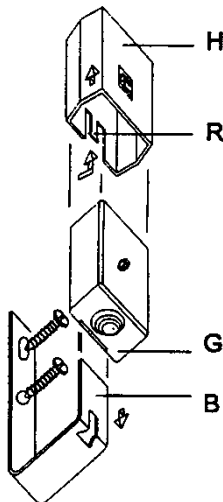
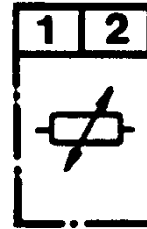


Fig. 2. Mounting

## ELECTRICAL CONNECTION

The wiring of the outdoor temperature sensor AF 20 has to be in accordance with the overall wiring circuit diagram. The terminals are not polarized so in the event of the wires connected in reverse, no malfunction will occur.



**AF 20**

Fig. 3. Electrical connection

**Honeywell**

Manufactured for and on behalf of the Environmental and Combustion Controls Division of Honeywell Technologies Sàrl, Rolle, Z.A. La Pièce 16, Switzerland by its Authorized Representative:

### Automation and Control Solutions

Honeywell GmbH  
 Böblinger Strasse 17  
 71101 Schönaich / Germany  
 Phone: (49) 7031 63701  
 Fax: (49) 7031 637493  
<http://ecc.emea.honeywell.com>

Subject to change without notice. Printed in Germany

EN3R-1107GE51 R1213