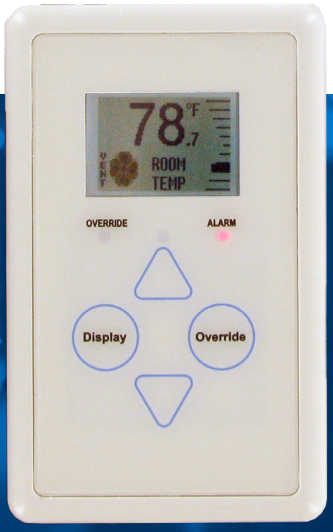
# E-BUS DIGITAL ROOM TEMPERATURE & HUMIDITY SENSOR ASM01820




**AAON Controls is involved in the design and selection of the sensors used with AAON units to ensure integration between sensors, controllers, software, and mechanical equipment**

## PHYSICAL

### Validating Information Provided by the Sensors to the Unit Controllers

The E-BUS Digital Room Sensor is used to sense Space Temperature and Space Humidity. The Sensor is supplied with a cover plate, a back plate, an optional mounting plate, and two mounting screws.

The sensor connects to the unit controller via an E-BUS cable of required length (sold separately).

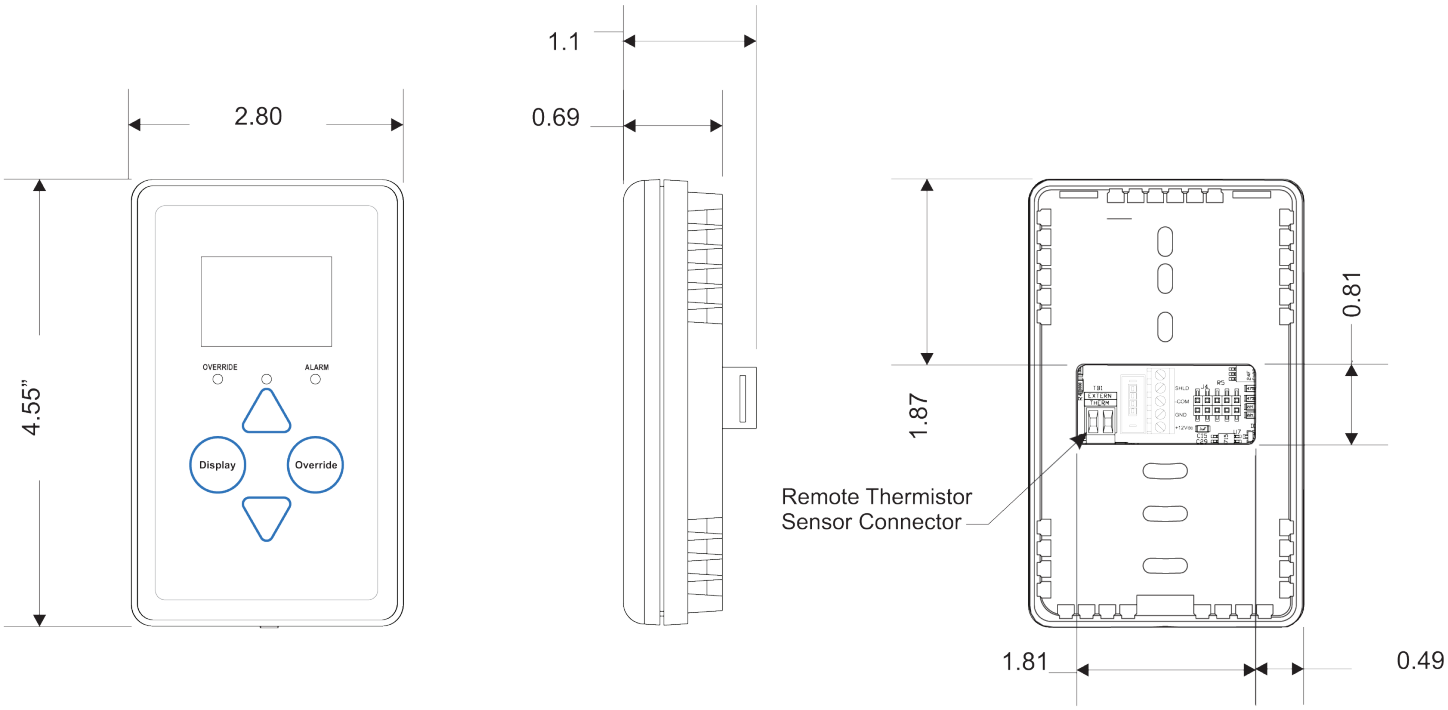
### Environmental Requirements

The E-BUS Digital Room Sensor needs to be installed in an environment that does not exceed a temperature greater than 120°F or less than 40°F and does not exceed 95% relative humidity levels (non-condensing).

The E-BUS Digital Room Sensor should be mounted on the wall in an area that does not have drafts or is exposed to direct sunlight.

| Electrical and Environmental | |
|---|---|
| Sensor Element | Type III Thermistor 10K ohm @ 77°F Digital Sensing Device |
| Sensor Reading Range | 40°F to 120°F |
| Ambient Temperature Limits | -40°F to 180°F |
| Accuracy | Temp +/- 0.8°F |
| Display | 112 x 64 Monochrome Graphical LCD w/ LED Back light |
| Connection | E-BUS |
| Weight | 3.2 oz |

**Contact AAON Support for Technical Assistance**
www.aaon.com/contact




**Front View** **Side View** **Back View**

# INSTALLATION

## Mounting

The E-BUS Digital Room Sensor is designed to be mounted to a vertical 2” x 4” electrical box recessed in the wall. If the wall cannot be penetrated, a plastic surface mount box such as those made by Wiremold™ may be used to mount the sensor to the wall surface. The Sensor should be mounted at least 5 ft. above the floor.

The Sensor is mounted by removing the front cover and fastening the housing base to the electrical box using the two supplied 6-32 x 1” mounting screws. The E-BUS cable is then plugged into the E-BUS connector located on the circuit board that is mounted on the cover. The cover is then placed onto the housing base, and the Allen Screw on the bottom of the base is adjusted to hold the cover in place.

**Scan the code for additional product information**