

Microprocessor LCD Display



ACI/TUC



Product Description

The ACI/TUC is a microprocessor based 2.5 digit LCD display that indicates room temperature, setpoint, fan speed, and occupied mode. A single thermistor is used to display the temperature as well as to output it directly to the Building Automation System. For applications requiring resistive sensors such as 100 or 1K Platinum RTD, 1K Nickel RTD, 1K Balco RTD, 2K RTD, and 100K Ohm thermistor, two sensors are used. The display also has factory set descriptors, which include °C, °F, Fan Off, Fan On, Auto, Low, Med, Hi, and Occupied.

The setpoint options include a 400 Ohm, 1K, 2K, 3K, 5K, 8.5K, 10K, 20K, and 100K Ohm resistance with any offset resistor. Analog setpoint options are also available in ranges of 0-5V, 1-5V, 0-10V, 2-10V, 0-20 mA, and 4-20 mA. Other setpoint options may be available upon request.

The "After Hours" override can be configured to either short the thermistor or RTD, short the setpoint,

or as a dry contact (separate input). An optional override acknowledgment includes a dry contact, 0V logic low input, 5V logic high input, or a 24 VAC input. The display will show Occupied with feedback from the DDC Control System.

The fan speed switch is available in 2, 3, 4, or 5 speed configurations and is indicated as such on the LCD display. The fan speed options can include a resistance output from 0 to 10K Ohm, 0-5V, 1-5V, 0-10V, 2-10V, 0-20 mA, and 4-20 mA. Other options may be available upon request.

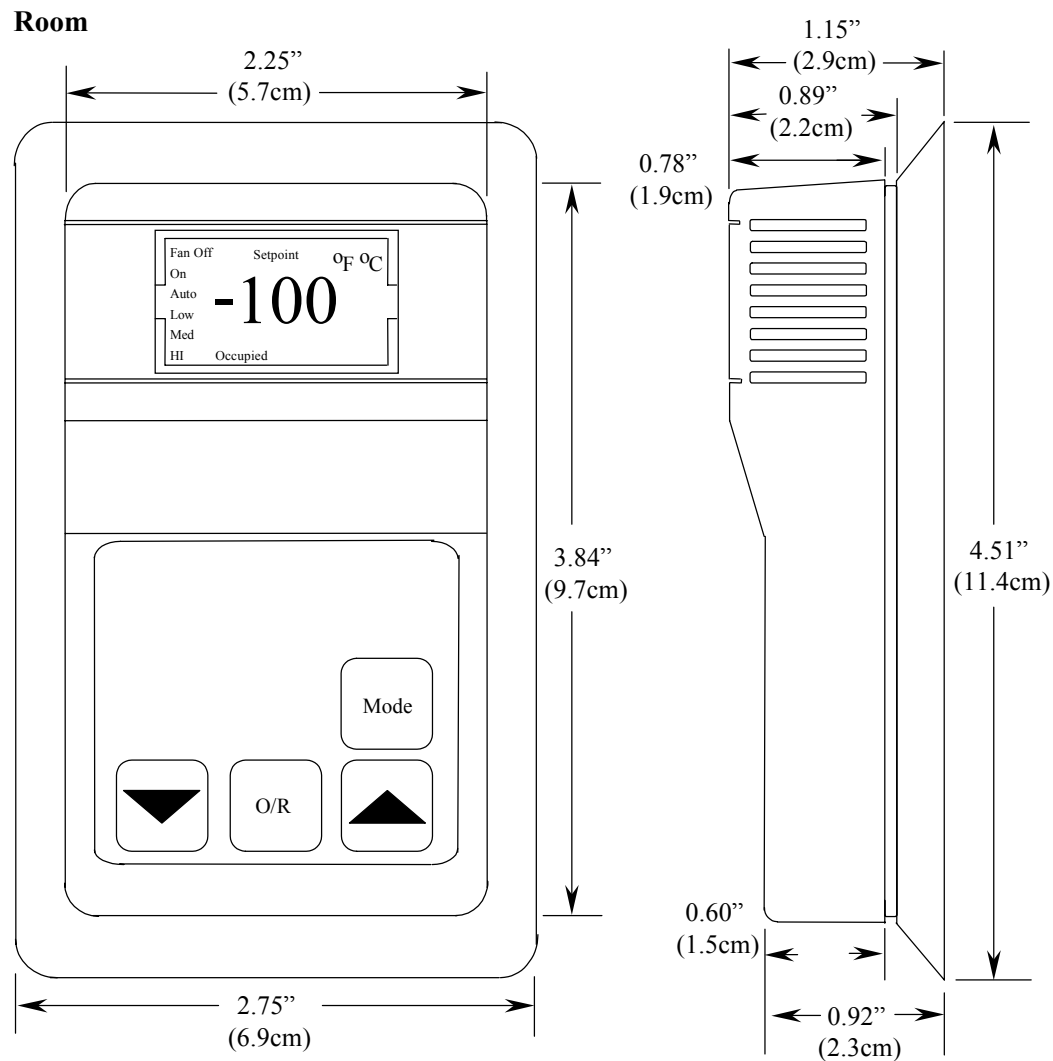
Field programmable options include displaying °F or °C, temperature adjustment, setpoint display range, setpoint lockout, and fan speed control.

All of these units come in a very attractive beige colored ABS plastic enclosure. The ACI/TUC comes with a two year factory warranty. Please contact ACI for more information regarding the ACI/TUC.

Product Specifications

Supply Voltage	+5 VDC, +15-30VDC, or 24 VAC	Analog Temperature Sensor Outputs	Resistive, 0-5V, 1-5V, 0-10V, 2-10V, 0-20mA, 4-20mA
Power Consumption	0.4 to 2 VA max	Temperature Sensor	See Ordering Information
Temperature Display Accuracy	+/- 1°F or +/- 1°C	Resistive Setpoint Accuracy	+/- 2% or better
Operating Temp. Range	40 to 104° F (5 to 40°C)	Analog Setpoint Outputs	Resistive, 0-5V, 1-5V, 0-10V, 2-10V, 0-20mA, 4-20mA
Communication Jack	See Ordering Information		

Dimensions



For CE compliance, sensor leads must be no longer than 3 meters in length. Additionally, certain product variations may not be CE compliant. Contact ACI for further details

Ordering Information

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Resistive

Note: All of the Setpoint Scales are also offered in °C for all of the ranges that are listed above.

When using 0-10VDC or 2-10VDC outputs, the unit must be powered with +18 to 30 VDC or 24VAC

For CE compliance, sensor leads must be no longer than 3 meters in length. Additionally, certain product variations may not be CE compliant.
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Examples: A/TUC -10K-AN -5 -°F -10K Ohm -R20K -DA -B -ST -SW -0-10K -2 -XXX or A/TUC -10K-CP -24 -°C -X -C420 -DA -F -DC -SW -4-20mA -2 -RJ6C6