

### TEMPERATURE | TUC2 | ANALOG VDC/MA TEMP



4 Button Membrane

# TUC2

#### Microprocessor Sensor [Analog VDC/mA Temp]

The A/TUC2 Series is a customizable sensor which features an on-board microprocessor, large backlit LCD display, set point, override and local system status when using the Override Feedback option. All accuracy measurements should be measured from the sensor output terminals with the LCD display being used for reference purposes due to the rounding of the display to the nearest 0.5°F. To eliminate errors between the temperature shown on the LCD display and the temperature output to your building management system, a single point temperature offset can be used. These units are factory configured to your desired specifications to reduce onsite programming. Additional features can be modified using the integral keypad and menu system, providing you with the field flexibility to meet any

 $additional \, requirements. \,\, Additional \, features \, include \, Set \, Point \, configurations, \, Backlit \, Display \, brightness \, and \, functionality, \, Set \, Point \, Lockout, \, Direct \, Configurations \, Confi$ and Reverse Acting Output adjustments, temperature offset, test functions and more. For additional features including Fan Speed and System Configurations, please contact ACI for more information.

Applications: Schools/Universities, Office Buildings, Commercial Buildings, Laboratories, Hospitals, Clean Rooms, Pharmaceutical, Process Control, OEM's

The ACI TUC2 Series is covered by ACI's Five (5) Year Limited Warranty. The warranty can be found in the front of ACI's Sensors & Transmitters catalog, as well as on ACI's website, www.workaci.com.

PRODUCT SPECIFICATIONS			
Supply Voltage:	0-1V, 0-5V, 1-5VDC Output Signals: 20-28 VAC / +12-40 VDC		
	0-10 V, 2-10V, 0-20 mA, 4-20 mA Output Signals: 18-40 VDC / 20-28 VAC		
Supply Current (Maximum):	mA Output Signals: 60 mA   VDC Output Signals: 16 mA		
Temperature Measurement Range:	See Output Temperature Span in Ordering Grid		
Temperature Accuracy 1:	+/- 1°F (+/- 0.5°C) (Display rounded to nearest 0.5°F/°C)		
Set Point Midpoint:	Select single point temp from 55 to 89°F (14 to 31°C)		
Set Point Differential (Scale Above / Below Midpoint):	Select single point from +/- 1° to +/- 20°		
Set Point Temperature Scale:	See Ordering Grid for Standard Options		
Temperature Set Point Accuracy:	+/- 2% Full Scale Output; +/- 5% Full Scale for all resistive outputs		
"After Hours" Override Contact Style (Optional):	N/O Dry Contact Closure; Other options available (See Ordering Grid)		
Override Contact Resistance   Life Expectancy:	< 30 Ohms   500,000 Actuations minimum		
Override Feedback Signal:	Dry Contact (Logic Low) or 5-30 VDC / 24 VAC (Logic High) (Specify when Ordering)		
LCD Backlight Color   LCD Backlight Function:	Blue   Turns on w/Button Press (Default); Field Adjustable: (ALWAYS ON or OFF)		
Display Mean Time Between Failure (MTBF):	100,000 Hours typical (When LCD Backlight set to ALWAYS ON)		
Display Numeral Height:	Large: 0.600" (15.24 mm); Small: 0.280" (7.11 mm)		
LCD Display Descriptors:	°F, °C, Set Point, Occupied / Unoccupied (Override Feedback)		
Communication Jacks (Optional):	J4 (4 Pin 4 Cond (RJ9, RJ10, RJ22 Phone)), J6 (6 Pin 6 Cond (RJ12 Phone)) and		
	RS (1/8" (3.5 mm) RS232 (Stereo) Jack)		
Power / Output Connections:	12 Position Screw Terminal Block		
Communication Jack Connections:	Six 7" (17.78 cm) Long x 26 AWG lead wires with wire nuts		
Terminal Block Wire Size   UL (SEL) Torque Rating:	Accepts 28 to 14 AWG (0.08 to 2.5 mm²)   4.4 lb-in (0.5 Nm)		
Enclosure Material   Color   UL Flammability Rating:	ABS / Polycarbonate Blend   White   UL 94-5VB		
Operating Temperature / Storage Temperature:	40 to 104°F (4.5 to 40°C)   -4 to 158°F (-20 to 70°C)		
Operating / Storage Humidity:	5 to 90% RH, non-condensing		
Product Dimensions (H x W x D)	4.56" (115.82 mm) x 3.00" (76.2 mm) x 1.45" (36.75 mm)		
Product Weights:	0.21 lbs. (0.095 kg)		
Agency Approvals:	CE (EMC 2014/30/EU); RoHS2 2011/65/EU		

Note 1: The output accuracy must be measured from the output terminals and not the display | The display is for reference purposes only since the unit rounds to the nearest





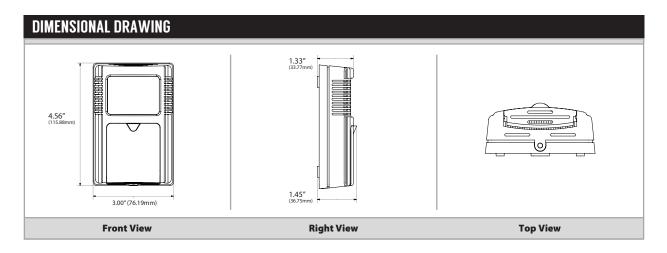


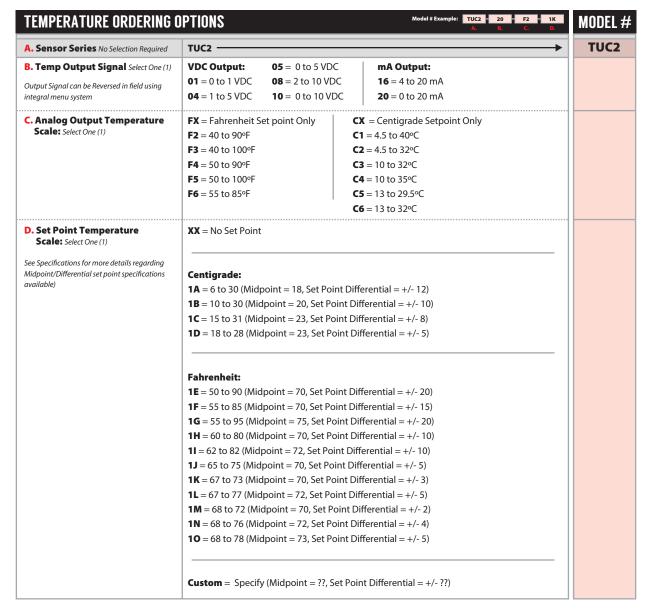




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TEMPERATURE ORDERING	OPTIONS continued	Model # E	xample: G0 X X X X X X E. F. G. H. I.
E. Set Point Temperature Output: Select One (1)	<b>XX</b> = No Set Point	<b>ZZ</b> = 0 to 1.5K Ohms	<b>ZN</b> = 3890 to 6110 Ohms
	<b>A0</b> = 0 to 1 VDC	<b>ZY</b> = 0 to 10K Ohms	<b>ZM</b> = 4550 to 6650 Ohms
See Specifications for more details regarding Midpoint/Differential set point specifications available)	<b>B0</b> = 0 to 5 VDC	<b>ZW</b> = 0 to 20K Ohms	<b>ZL</b> = 5K to 15K Ohms
	<b>C0</b> = 0 to 10 VDC	<b>ZT</b> = 0 to 100K Ohms	<b>ZK</b> = 7.8K to 27.8K Ohms
	<b>D0</b> = 1 to 5 VDC	<b>ZS</b> = 100 to 6500 Ohms	<b>ZJ</b> = 9577 to 1421 Ohms
	<b>E0</b> = 2 to 10 VDC	<b>ZR</b> = 333 to 1695 Ohms	<b>ZI</b> = 9843 to 1290 Ohms
	<b>F0</b> = 0 to 20 mA	<b>ZQ</b> = 866 to 1290 Ohms	<b>ZH</b> = 10K to 30K Ohms
	<b>G0</b> = 4 to 20 mA	<b>ZP</b> = 889 to 111 Ohms	<b>ZG</b> = 10K to 20K Ohms
		<b>ZO</b> = 1089 to 879 Ohms	<b>ZF</b> = 2.49K to 3.49K Ohms
F. "After Hours" Override Options: Select One (1)	X = No Override   S = Short Sensor   C = Dry Contact/Logic Low   P = Short Set Point		
G. Override Feedback Options: Select One (1)	X = None   L = Dry Contact / Logic Low   H = Logic High / 24 VAC or 5 to 30 VDC		
H. Communication Jack Options: Select One (1)	X = None 4 = 4 Pin 4 Conductor RJ9, RJ10, or RJ22 Style Head Set Modular Connector 6 = 6 Pin 6 Conductor RJ12 Modular Phone Connector		
	<b>8</b> = 3.5mm (1/8") Ster	ео јаск	
I. Manufacturer Provided  No Selection Required	<b>X</b> = Default ———		

ACCESSORIES ORDERING Model # Example: ALOCKING COVER -OR- 1037		
Model #	odel # Description	
A/MOUNT PLATE W	126386	Wall Mounting Back Plate, Plastic, White
A/LOCKING COVER	107370	Clear Thermostat Guard, Locking Cover, Low Profile







