



Product Data

A/TUC2
Microprocessor Based
Display with Temperature

TUC2



Attributes:

- Large LCD w/ backlight
- Displays Temp, Setpoint, Fan Speed, and System Status (Auto/Heat/Cool)
- Microprocessor technology provides greater output, and field option, flexibility
- Attractive enclosure with hidden membrane keypad
- Function menu-user friendly

Applications:

- Office / Commercial Bldgs
- Hotels
- High Profile Residential
- Schools /Universities
- Hospital / Surgical Suites
- OEM applications



Made in the **USA**

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Product Description

The microprocessor based A/TUC2 comes with an LCD display that can indicate room temperature, setpoint, fan speed, and occupied/unoccupied status. The unit can display temperature and setpoint using the F or C degrees scale. As an option, fan control can be provided for 2 to 5-speed fans with LCD indication of fan speed. Override and override feedback options can also be supported.

This unit supports single sensor operation for several common sensor types and it provides the flexibility to choose from numerous setpoint output options. The unit can also be configured to display the setpoint temperature only. Additionally, many options are field adjustable.

The A/TUC2 is highly configurable as a standard offering but can also be engineered to meet your special OEM requirements. Additional charges might be applied based on the complexity of the requested design modifications.

The A/TUC2 Series is covered by ACI's Five (5) Year Limited Warranty, which is located in the front of ACI'S SENSORS & TRANSMITTERS CATALOG or can be found on ACI's web site, which is: www.workaci.com.

Product Specifications

Supply Voltage	+12-40VDC (Resistance, 0-1V, 0-5V, 0.5-4.5V, 1-5V) +18-40VDC (0-10V, 2-10V) 20-28 VAC (All Outputs)
Supply Current	100mA max (Current Output Models) 16mA max (Voltage and Resistive Output Models)
Temperature Display Accuracy	+/- 1°F (+/- 0.56°C)
Operating Temp. Range	40°F to 104°F (5°C to 40°C)
Operating RH Environment	0 to 95% RH (non-condensing)
Analog Temperature Sensor Outputs	Resistive, 0-1V, 0.5-4.5V, 0-5V, 1-5V, 0-10V, 2-10V, 0-20mA, 4-20mA
Setpoint Accuracy	+/- 5% Full Scale Output (Resistance) +/- 2% Full Scale Output (Analog)
Analog Setpoint Outputs	Resistive, 0-1V, 0.5-4.5V, 0-5V, 1-5V, 0-10V, 2-10V, 0-20mA, 4-20mA
Override, Fan, & System Options	See ordering information
Communication Jack	See Ordering Information
Approvals	RoHS, REACH

Wiring Diagrams available at www.workaci.com

TEMPERATURE

RELATIVE HUMIDITY

PRESSURE

CURRENT

GAS SENSORS

ACCESSORIES

INTERFACE DEVICES

Ordering Information for A/TUC2

Temp Sensor Type	Temp Scale	Temp Range	Temp Offset	Temp Action	Temp Midpoint	Temp Range	Temp Display	Temp Option	Temp Feedback	Temp Options*	Temp Jack	Temp Default Display
A/TUC2	- []	- []	- []	- []	- []	- []	- []	- []	- []	- []	- []	- []
None	°F	None	None	NA (None)	None	None	None	None	None	Off	(No Jack)	Temp only*
1K-Nickel	°C	400	0	DA (Direct)	55 F or 14.0 C	-0 to +0	Degrees (F or C)	Digital Low Input	Digital High Input	On	(4 pin 4 Conductor)	Temp Setpoint Only
1K-Balco		1K	800	RA (Reverse)	56 F or 14.5 C	-1 to +1		24 VAC	24 VAC	Off	(6 pin 4 Conductor)	*Setpoint will display when membrane up/down button is pressed.
1K-RTD (375)		2K	900		57 F or 15.0 C	-2 to +2		Dry Contact	Dry Contact	Auto	(6 pin 6 Conductor)	
1K-RTD (385)		3K	1K		58 F or 15.5 C	-3 to +3	Offset (+/-)	Self-Indication	Self-Indication	Med	(3.5mm Stereo)	
1035		5K	2.05K		59 F or 16.0 C	-4 to +4				High		
2K-RTD		8.5K	4.75K		60 F or 16.5 C	-5 to +5						
1.8K		10K	6.2K		61 F or 17.0 C	-6 to +6						
2252		20K	7.8K		62 F or 17.5 C	-7 to +7						
3K		100K	10K		63 F or 18.0 C	-8 to +8						
3K-ASI		0-1VDC	866		64 F or 18.5 C	-9 to +9						
10K-AN		0-5V	889		65 F or 19.0 C	-10 to +10						
10K-CP		0.5-4.5V	3890		66 F or 19.5 C	-11 to +11						
10K-CSI		1-5V	4550		67 F or 20.0 C	-12 to +12						
10KS		0-10V	1422		68 F or 20.5 C	-13 to +13						
20KS		2-10V	1290		69 F or 21.0 C	-14 to +14						
20K		0-20mA	4K		70 F or 21.5 C	-15 to +15						
0-20mA		4-20mA	2.49K		71 F or 22.0 C	-16 to +16						
4-20mA			879		72 F or 22.5 C	-17 to +17						
0-1VDC					73 F or 23.0 C	-18 to +18						
0-5VDC					74 F or 23.5 C	-19 to +19						
0.5-4.5VDC					75 F or 24.0 C	-20 to +20						
1-5VDC					76 F or 24.5 C							
0-10VDC					77 F or 25.0 C							
2-10VDC					78 F or 25.5 C							
20-0mA					79 F or 26.0 C							
20-4mA					80 F or 26.5 C							
1-0VDC					81 F or 27.0 C							
5-0VDC					82 F or 27.5 C							
4.5-0.5VDC					83 F or 28.0 C							
5-1VDC					84 F or 28.5 C							
10-0VDC					85 F or 29.0 C							
10-2VDC					86 F or 29.5 C							
					87 F or 30.0 C							
					88 F or 30.5 C							
					89 F or 31.0 C							

*Contact ACI for the set up of Fan Speed and System output value options:
 0V, 1V, 2V, 3V, 4V, 5V, 6V, 8V, 10V, 0mA, 4mA, 8mA, 12mA, 16mA, 20mA
 Resistance in ohms: 0, 2.5K, 5K, 7.5K, 10K, 15K, 20K, 25K, plus more

Analog Outputs are scaled **40°F to 104°F**
 Contact ACI for further options

Design parameters might not allow for every option combination listed on this grid. Please contact ACI for further details.