



Automation Components, Inc.

TUCH2

Microprocessor Based Humidity Sensor with Temperature Option

Air flow ventilation

Blue backlit LCD display

Easy to use menu

Drop-down door



H: 4.56" W: 3.00" D: 1.26"

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The microprocessor based A/TUCH2 can indicate room relative humidity, temperature, setpoint, fan speed, and occupied/unoccupied status with corresponding signals sent back to your DDC System. This unit supports single sensor operation for several common sensor types and it provides the flexibility to indicate several options. Additionally, many options are field via the key-pad menu. The A/TUCH2 is highly configurable as a standard offering but can also be engineered to meet special OEM requirements.

The A/TUCH2 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.



Made in the U.S.A.

SPECIFICATIONS

Supply Voltage	+12-40VDC (0-1V, 0-5V, 0.5-4.5V, 1-5V) +18-40VDC (0-10V, 2-10V) 20-28 VAC (All Outputs)
Supply Current	Current Output: 100mA maximum, Voltage & Resistive Output: 16mA maximum
Temperature Display Accuracy	+/-1°F (+/- 0.56°C)
Operating Temperature Range	40°F to 104°F (5 °C to 40°C)
Operating Relative Humidity Environment	0 to 95% Relative Humidity (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	Resistance: +/-5% Full Scale Output Analog: +/-2% Full Scale Output
Analog Setpoint Outputs	Resistive, 0-1V, 0.5-4.5V, 0-5V, 1-5V, 0-10V, 2-10V, 0-20mA, 4-20mA
Approvals	RoHS, Reach

OPTIONS

Please refer to the Temperature section (TUC2 ordering grid) of this catalog and follow steps 1-5 on page 32.

STEP 6	RH SENSOR	SENSOR OUTPUT			SETPOINT RANGE			SETPOINT OFFSET	
Select RH sensor, output, range & offset.	2%	0-1V	0-20mA	10-0V	400	10K	1-5V	0	6.2K
	3%	0-5V	4-20mA	10-2V	1K	20K	0-10V	800	7.8K
	5%	0-.5-4.5V	1-0V	20-0mA	2K	100K	0-20V	900	10K
		1-5V	5-0V	20-4mA	3K	0-1V	0-20mA	1K	4K
		0-10V	4.5V-.5V		5K	0-5V	4-30mA	2.05K	2.49K
		2-10V	5-1V		8.5K	0.5-4.5V		4.75K	

STEP 7	ACTION	SETPOINT MIDPOINT						SETPOINT RANGE				DISPLAY
Select action, midpoint, range & display.	NA (None)	33	39	45	51	57	63	-0 to +0	-6 to +6	-12 to +12	-18 to +18	RH (%)
	DA (Direct)	34	40	46	52	58	64	-1 to +1	-7 to +7	-13 to +13	-19 to +19	Offset (+/-)
	RA (Reverse)	35	41	47	53	59	65	-2 to +2	-8 to +8	-14 to +14	-20 to +20	
		36	42	48	54	60	66	-3 to +3	-9 to +9	-15 to +15		
		37	43	49	55	61	67	-4 to +4	-10 to +10	-16 to +16		
		38	44	50	56	62		-5 to +5	-11 to +11	-17 to +17		



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The TUC2 enclosure has UL94-V0 & UL94-5VB flammability ratings.