

Relative Humidity & Temperature Controller

OVERVIEW

The ASHE AHT-74 is a micro-controller based Relative Humidity and Temperature Indicator with control outputs, offered in a highly compact, rugged and reliable execution. The instrument has three keys on the front panel, with which the operator can set the parameters and configure the instrument as desired.

The instrument accepts RS485 signal from the RH-cum-Temperature sensor probe HTP-1 as input signal. The instrument AHT-74 is factory calibrated, so that it doesn't require calibration at the plant site. The AHT-74 provides four control Relay outputs (two for each parameter), the set points of which may be configured with it's independent Hysterisis value, through the Membrane Keypad on the front panel.

The instrument operates on universal AC power supply (90 to 270 V AC, 50/60 Hz) and is offered in standard ¼ DIN panel-mount execution. The instrument has non-volatile memory.

The RH & Temperature Indicating Controller Model: AHT-74 is an ideal instrument for Humidity & Temperature measurement and control applications. Other features include it's inherent accuracy and immunity to shocks, dust, ambient temperatures, and humidity. It is available in field-mounting (weather-proof / explosion-proof executions) and standard panel mounting enclosures.

Further, the instrument is manufactured using selected high-grade components which guarantee it's functionality and long operational life.



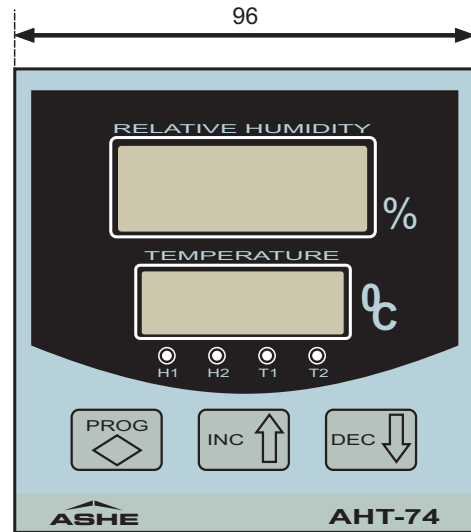
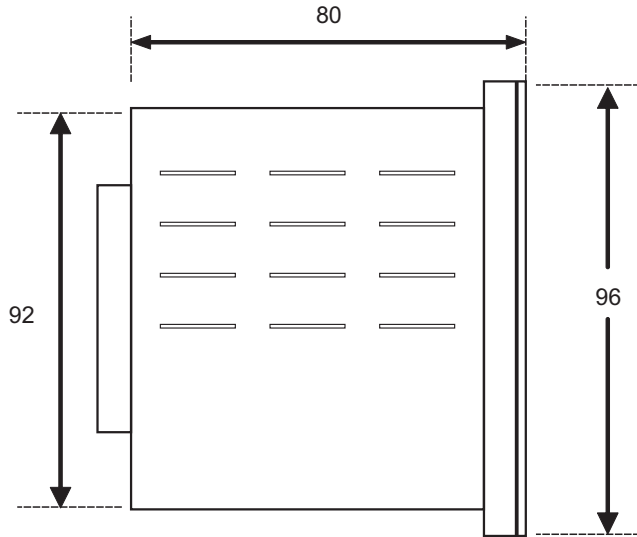
SPECIFICATIONS

Model	ASHE AHT-74
Type	Microcontroller based digital RH & Temperature indication with control action.
Input Sensor	Ashe HTP-1 Humidity & Temperature Probe
Display	Dual 4-digit, 0.5"/0.4" seven-segment red LED display for RH and Temperature.
Scale Range	-999 to +9999.
Calibration	000.0 to 100.0% (RH). -50 to +100 deg C. (Temp.)
Response Time	< 200 mS
Linearity	± 0.1% of span.
Calibration Facility	By Membrane keypad on front panel.
Control Output	Four relay changeover contacts (configurable). Two for each parameter.
Contact Rating	10 Ampere @ 230 V AC (resistive loads).
Control Logic	High-Low (Configurable).
Alarm Indication	By LEDs on front panel.
Memory	Non-volatile.
Accuracy	± 0.1% of FSD.
Settings	Settings for Control Logic, Set-points, Hysterisis, etc.
Dimensions	96 x 96 x 80 mm [W x H x D].
Power Supply	90 to 270 V AC, 50/60 Hz.
Execution	Panel mounting.
Enclosure	Industrial grade ABS.
Weight	Approximately 0.5 Kgs.
Operating Temperature	0 to 55°C.

FEATURES

- Microcontroller based design
- RH+T Sensor Probe HTP-1 Input
- High accuracy and linearity to input signal
- Dual 4-digit seven-segment LED displays
- Up to Four Relay change-over contacts (two for each parameter)
- Very low power consumption and heat dissipation
- Fully configurable
- Retransmission option for each parameter
- Selectable Decimal-point
- Universal AC Power Supply
- On-Off control action options
- Rugged, industrial grade ABS enclosure
- High Noise immunity
- Panel / Field / Hazardous-area installation in IP66 execution
- Proven record of several thousand installations

DIMENSIONAL DIAGRAM



How To ORDER

RELATIVE HUMIDITY & TEMPERATURE CONTROLLER	AHT-7			
Configuration and add-on options				
1 CONTROL RELAY OUTPUTS				
▶ No Relay Output		0		
▶ Four Relay Outputs (for each parameter)		4		
2 OUTPUT SIGNAL				
▶ 4 to 20 mA DC Retransmission for each parameter			G	
▶ Retransmission not required			N	
3 EXECUTION				
▶ Front Panel mounting				P
▶ Field mounting in Weather-proof execution (Polycarbonate enclosure, Ingress protection)				W
▶ Field mounting in Flame/Explosion-proof Ex-d execution (Cast Aluminum Alloy LM6 enclosure, for Gas groups IIA, IIB, IIC)				X

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Designed and Manufactured By :

ASHE CONTROLS PRIVATE LIMITED

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