

# RELATIVE HUMIDITY & TEMPERATURE CONTROLLER

## AHT-74



### 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 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 its independent Hysteresis 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 its 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 its functionality and long operational life.

All ASHE range of instruments carry a lifetime warranty for design and workmanship.

### SPECIFICATIONS

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

### FEATURES

- Microcontroller based design.
- RH+T Sensor Probe Input
- High accuracy and linearity to input signal
- Dual 4-digit seven-segment LED displays
- Multiple Relay change-over contacts
- Very low power consumption and heat dissipation
- Fully configurable
- Retransmission option.
- 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 IP65 execution
- Proven record of several thousand installations
- Lifetime warranty on design and workmanship