

TEMPERATURE CONTROLLER

AT-74



OVERVIEW

The ASHE AT-74 is a micro-controller based 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 AT-74 is factory calibrated, so that it doesn't require calibration at the plant site. The AT-74 provides four control Relay outputs, the set points of which may be configured control action desired 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 Temperature Indicating Controller Model: AT-74 is an ideal instrument for 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

Model	ASHE AT-74
Type	Microcontroller based digital temperature indication with four-point control action.
Input Signals / Sensors	Ashe HTP-1 Humidity Probe,
Display	Dual 4-digit, 0.5"/0.4" seven-segment red LED display.
Scale Range	-999 to +9999.
Calibration	-50.0 to +100.0 deg C.
Response time	< 200 mS
Linearity	0.1% of span.
Calibration facility	By Membrane keypad on front panel.
Control output	Four relay changeover contacts (configurable).
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.
Retransmission	4 to 20 mA DC [optional].
Load driving capacity	600 Ohms
Settings	Settings for Control Logic, Set-points, Hysteresis, etc.
Dimensions	96 x 96 x 80 mm [W x H x D].
Power Supply	90 V to 270 V AC, 50 hz.
Execution	Panel mounting.
Enclosure	Industrial grade ABS.
Weight	Approximately 0.5 Kgs.
Operating Temperature	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