

RH+TEMPERATURE INDICATOR

INTRODUCTION

RHT802 is a microcontroller-based, high performance battery operated, RH+T Indicator. It has an integral dual 4-digit LCD display.

The circuit is designed for ultra-low power consumption. This gives a battery life in excess of 1 year with a standard 9 volt alkaline battery. Parameters which can be configured are unit, bias and sampling interval.

It is available in two versions.

Basic Version : This is an Indicator with no external push-buttons available to the user. Parameter programming can be done using the keys inside the enclosure. The enclosure has to be opened for this purpose.

Version with MIN/MAX function : This is the Basic Version, with two external Push-button Switches provided. Using these, the user can operate the MIN/MAX function, and also change programmable parameters without opening the enclosure.



FEATURES

- 1 year+ battery life (Duracell 9V, Alkaline)
- Accuracy : $\pm 2\%$ RH, ± 0.5 °C
- Software calibration - no trimpots
- IP65, rugged construction
- Dual 7-segment LCD display to show RH & T
- Programmable sampling interval, unit, bias, etc
- RTC display
- Two versions :
 - Basic
 - With MIN/MAX function

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SPECIFICATIONS

All specifications at ambient of 25 °C, unless specified otherwise

INPUT

Sensor type	Capacitive for RH, Semiconductor (Band gap) for temperature
Range	0~100% RH, non-condensing 0~50 °C
Display	Dual 7-segment, 4-digit, 0.5" (12.7 mm) LCD
Accuracy	± 2% RH, ± 0.5 °C
Sampling interval	3 to 18 seconds, user programmable
Display offset	%RH : ±10 °C/°F : ±10

REAL TIME CLOCK

Display	HH : MM
Accuracy	± 60 seconds / month
Format	12 hours, 24 hours (Programmable)

POWER / BATTERY LIFE

Battery	9 Volts, NEDA 1604, IEC6F22 (Recommended : Duracell, Alkaline, MN1604)
Battery life	1 year+ (Duracell, Alkaline, MN1604, 3-second sampling interval)

TEMPERATURE, HUMIDITY

Ambient, storage	-25 to +70 °C
Ambient, operation	0 to +50 °C
Relative humidity	0 ~ 100% RH

MOC

Enclosure	LM6, pressure die-cast
Sensor tube	SS304
Filter	Sintered bronze

OTHER

Certification	Flameproof for Gas Groups I, IIA & IIB
Protection	IP65, except sensor tube
Dimensions (in mm)	148(H) x 148(W) x 105(D)
Mounting	Wall / Surface

ORDERING INFORMATION

ORDER CODE	
2428	A

A	Range
01	Basic version
02	Version with MIN/MAX function

CAT#447R2/310316/A

ENQUIRIES

Instruments: sales@radix.co.in
Sensors: sensors@radix.co.in
Gauges: gauges@radix.co.in
Automation: automation@radix.co.in
Level: level@radix.co.in

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