

# Temperature and humidity Indicator

## A9-G331-SM



**A9-G331-SM** is a temperature and humidity indicator display both temperature and humidity on a continuous basis. It is provided with the calibrated sensor to measure both temperature & humidity. It is provided with arrangement to offset the parameters, if required.

The model **A9-G331-SM** could measure and display the parameters. It could be integrated to the BMS system using its RS 485/LAN port. Sensor module **A9-SHT-SM** of the system could be connected up to a distance of 1000 meters using CAT 6 cable. It is provided with a facility to set the Maximum and Minimum values of the operating range such that it would generate an alarm whenever the values go out of range.

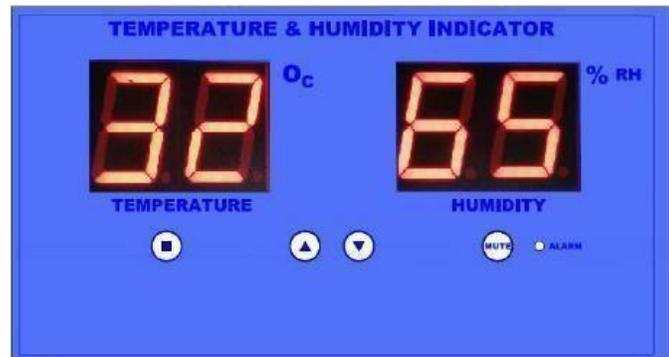
This field-proven indicator, operating from 80 to 250V AC. It is also provided with a backup power to support for about 3 Hrs, in the event of utility failure. We have taken care of designing as per **IEC** standards and are cleared for **EMC/ EMI**.

### 1. Product Highlights

- Indoor temperature and humidity display
- Possibility to offset both temperature and humidity
- Sensor failure indication
- Dew point temperature display
- Ease of operation
- 4 hours battery power backup
- Alarm indication with a mute option
- RS-485 port to interface sensor

### 2. Applications

- Telecom Exchanges (RLUs)
- Computer server rooms
- Calibration laboratories
- Machining Centers
- Processing



### 3. Sensor specification

- Supply Voltage : 9 to 24V DC
- Mode of communication : RS485(Full-duplex)
- Baud rate : 9600 b/s
- Type of cable : CAT 6
- Maximum Cable length: 1000 m
- Unique identification number : upto 8 combination

#### • Relative Humidity

Parameter	Value
Operating range	0 to 100% RH
Accuracy	± 3%
Response time	10 sec

#### • Temperature

Parameter	Value
Operating range	-40 to 120°C
Accuracy	± 0.4°C
Response time	5 to 30 sec

#### 4. Product Selection Chart

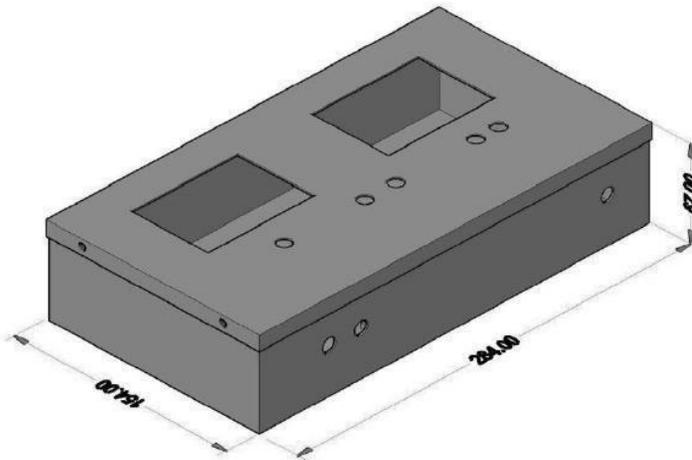
Model number	Indication		Alarm output	Input		Alarm Generation						Display	
	Temperature	Humidity	Relay (5A)	Battery backup	RS485 port	Temperature			Humidity				
						Low (1°C)	High (99°C)	Offset (±5°C)	Low (1%)	High (99%)	Offset (15%)		
A9-G331-SM*	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	LED

*Fig 4.1 Product selection chart*

\* This model is coming with the Temp/RH sensor module **A9-SHT-SM** that could be connected up to a length of 1000 meters away from the indicator.

#### 5. Mechanical Dimensions (in mm)

Length × Breadth × Height: 284 × 154 × 67



#### 6. Electrical Specifications

Input Voltage			Frequency	Alarm relay rating (A)	Power consumption (VA)
Min.	Typ.	Max.			
85	220	270	50 ± 5Hz	5A, 230V AC	2VA

*Fig 6.1 Electrical specification*

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