

Why Check the Level of Humidity?



AEMC's Model CA846 takes accurate temperature and humidity measurements in a variety of environments.

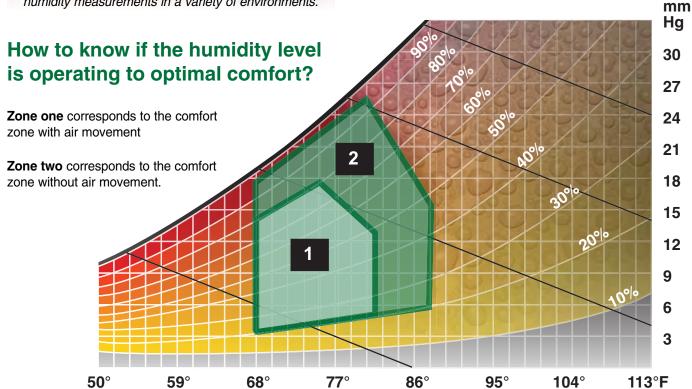
Maintaining an appropriate level of humidity is imperative, for hygienic reasons and for energy efficiency.

An excess of humidity in the air is easily identified by the appearance of mold, peeling wallpaper or rust on iron objects and reoccuring condensation on cold surfaces.

Furthermore, even though the humidity level plays a secondary role in times of cold weather, it becomes increasingly important in relation to ambient temperature. This is because evaporation decreases as the level of humidity increases (thus the "hot and muggy" sensation in very humid weather). By slowing down the evaporation of moisture, the level of humidity generates a thermal discomfort proportional to the wet surface.

Different installations and equipment regulate the humidity level: air conditioning systems, controlled mechanical ventilation systems and dehumidifiers. To test their efficiency, it is important to periodically check the humidity level. Generally, the ideal, maximum comfort humidity level is between 30 and 40%.

The CA846 uses an Negative Temperature Coefficient (NTC) sensor and a capacitive humidity sensor. A three position switch is used to select the temperature (°C/°F), relative humidity or OFF positions.





AEMC's Thermo-Hygrometer

Model CA846



SPECIFICATIONS

MEASUREMENTS — TEMPERATURE		
Measurement Range	-4° to 140°F or -20° to 60°C	
Display Resolution	0.1°F or 0.1°C	
Sensor	NTC Temperature Sensor	
Accuracy	-4° to 32°F: ±2°F or -20° to 0°C: ±1°C 32° to 140°F: ±1°F or 0° to 60°C: ±0.5°C	
MEASUREMENTS — RELATIVE HUMIDITY		
Measurement Range	0 to 100% RH	
Display Resolution	0.1% RH	
Sensor	Capacitive Humidity Sensor	
Accuracy	±5.0%, 25°C, 10% to 90% RH ±10.0%, 25°C, 0% to 10% RH, 90% to 100% RH	
GENERAL		
Display	3½ digit liquid crystal display (LCD), 2000-count	
Operating Temperature	32° to 122°F (0° to 50°C), 80% RH	
Storage Temperature	-4° to 140°F (-20° to 60°C), 0 to 80% RH without battery	
Polarity	Automatic	
Power Source	One 9V Alkaline battery (included)	
Low Battery Indication	- +1 is displayed when battery voltage is low	
Dimensions	6.81 x 2.38 x 1.5" (173 x 60.5 x 38mm)	
Weight	Approx. 7 oz (197g) including battery	

FEATURES

- · Easy one-hand operation
- Measures temperature in °F and °C
- Accurate NTC sensor
- Quick response RH sensor
- · Max and Hold functions
- 2000-count backlit LCD
- · Lightweight and compact
- Removable protective sensor cover
- · Includes rugged, protective, dirt resistant gray holster

APPLICATIONS

- Greenhouses
- HVAC installation and maintenance
- · Office environments
- Labs
- · Environmental studies
- Weather monitoring
- · Food distribution and storage
- Blood banks

CATALOG NO.	DESCRIPTION
2121.24	Thermo-Hygrometer Model CA846



We have a solution! Contact us with any technical or product application questions...



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