



This 433MHz active humidity-temperature RFID tag monitors the ambient temperature and relative humidity inside of data center racks to enable easy mapping of data center temperature profiles and air flow optimization.

The active humidity-temperature RFID tag is designed for use in environmentally-sensitive areas such as IT data centers. The small form factor tag monitors the ambient temperature and relative humidity inside of data center racks to enable easy mapping of data center temperature profiles for air flow optimization. It reports real-time environmental conditions periodically. This single use RFID tag is encased in an impact resistant polycarbonate enclosure with a strong adhesive on the back of the case. It performs reliably with an operating temperature range of -20°C to 70°C and 0% to 95% RH with an accuracy of $\pm 1.2^\circ\text{C}$ and $\pm 5\%$ RH. It has a small form factor and features a low-battery alert function and operates with a very low duty cycle and a 10s beacon rate.



Key Features

- ✓ Accurate temperature monitoring within 1.2°C
- ✓ Accurate humidity monitoring within 5% RH
- ✓ Encoded radio transmission at 433MHz
- ✓ Ideal for monitoring rack installed assets and sensitive equipment
- ✓ Industrial-strength adhesive mounting and flexible mounting options
- ✓ Enhances customers' existing active RFID infrastructure
- ✓ Ideal for high-density environments

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Specifications

Operating frequency	433.92MHz
Unique Tag ID codes	>500.000 unique IDs
Typical transmission range	>30ft
Modulation	ASK
Stability	Saw stabilized
Battery type	Lithium CR2032 coin cell
Battery life	>3 years
Construction	Lexan polycarbonate enclosure with sensor cutout
Durability	Tough, impact resistant and temperature stable
Mounting options	3M 200MP adhesive, zip-tie loop lanyard
Operating temperature	-20°C to 70°C
Storage temperature	-40°C to 80°C
Temperature sensor accuracy	±1.2°C (typical)
Humidity sensor accuracy	±5% (typical)
Dimensions	56.4mm × 44.2mm × 8.9mm
Weight	34.16g





GAO RFID Inc.

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Product Overview

UHF Humidity-Temperature RFID Tag (124055)



GAO Group

GAORFID.com

GAOTek.com

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GAOComm.com

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