



AT A GLANCE

0.1 °C

Calibrated temperature accuracy across the -40 to 80 °C range

2 % RH

Humidity accuracy across the full 0 to 100 % RH range

KEY FEATURES

- Enterprise-grade wireless temperature & humidity monitoring for pharmacy, healthcare, and labs
- WPA2-Enterprise Wi-Fi connectivity — readings stream to the ATEK platform in real time
- Calibrated digital probe with included calibration certificate and a unique serial number
- Backlit display with min/max reset, audible alarm, and power-loss detection
- Mains-powered (5 V, 500 mA) with an internal rechargeable battery for backup operation
- 6 months of on-board data storage at 5-minute intervals for uninterrupted records

Pairs With a Compliance-Ready Platform

Use ATEK-T-WF-TH with the ATEK platform, which provides 21 CFR Part 11 controls — audit trails, e-signatures, and ALCOA+ data integrity. Validate compliance for your intended use.

CERTIFICATIONS

CE

FCC

MEASUREMENT PERFORMANCE

Parameter	Temperature	Humidity
Sensing	✓	✓
Measurement range	-40 °C to 80 °C	0 to 100 % RH
Range (imperial)	-40 °F to 176 °F	0 to 100 % RH
Resolution	0.01 °C	0.01 % RH
Accuracy	0.1 °C	2 % RH
On-device display	✓	✓

TECHNICAL SPECIFICATIONS

Parameter	Specification
WIRELESS CONNECTIVITY	
Technology	Wi-Fi 2.4 GHz, WPA2-Enterprise
Cloud platform	ATEK platform — real-time readings, trends, and alarms
Transmit interval	30 s on mains power, 15 min on battery
Recording interval	5 min; 6 months on-board storage
TEMPERATURE	
Range	-40 °C to 80 °C (-40 °F to 176 °F)
Resolution	0.01 °C
Accuracy	0.1 °C (calibrated)
HUMIDITY	
Range	0 to 100 % RH (condensation-free)
Resolution	0.01 % RH
Accuracy	2 % RH
PHYSICAL & POWER	
Enclosure	84 × 84 × 32 mm (3.3 × 3.3 × 1.25 in)
Power	5 V / 500 mA mains, internal rechargeable battery backup
Display	Backlit display — temperature & humidity, min/max reset, power-loss detection
Calibration	Calibration certificate included; unique serial number
COMPLIANCE	
Certifications	CE, FCC

WHERE IT'S USED

- Pharmacy fridge & freezer monitoring
- Vaccine cold-chain compliance
- Lab incubator monitoring
- Cleanroom environmental control
- Hospital medication storage
- Blood-bank temperature tracking

ORDERING INFORMATION

ATEK Part Number	Description
ATEK-T-WF-TH	WiFi temperature & humidity transmitter — -40 to 80 °C (0.1 °C), 0 to 100 % RH (2 % RH)

Contact ATEK for volume pricing, deployment kits, and calibration certificate options.

ATEK PLATFORM INTEGRATION

- Real-time temperature & humidity readings, trends, and alarms within seconds of each Wi-Fi uplink
- Automated compliance reporting — scheduled CSV / PDF / Excel exports with hourly, daily, and monthly aggregations
- Multi-channel alerts — email, SMS, voice call, and webhook on excursion
- Immutable time-series storage with tamper-evident audit logs
- 21 CFR Part 11 controls on the ATEK platform — user-level audit trails, e-signatures, ALCOA+ data integrity (validate for your intended use)
- Calibration tracking — each probe's certificate auto-associates by serial number with expiry alerts and audit trail
- Network-loss resilience — 6 months of on-board storage backfills automatically once Wi-Fi is restored