



AT A GLANCE

0.1 °C

Calibrated accuracy across the -40 to +60 °C digital range

2 Inputs

Two digital probe inputs per transmitter, each independently logged

KEY FEATURES

- Enterprise-grade wireless temperature monitoring for pharmacy, healthcare, and labs
- Two digital temperature inputs (Input 1 + Input 2) on a single transmitter
- 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
- Glycol-bottle probe base buffers brief door-open events for true product temperature
- Backlit display with min/max reset 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

Plug-and-Calibrate

Each digital probe is batch-validated in a calibration bath and ships with a certificate. Plug it in and the certificate **auto-links by serial number** on the ATEK platform — no manual pairing.

DIGITAL PROBE PERFORMANCE

Parameter	Specification
Sensor type	Digital temperature probe
Measurement range	-40 °C to +60 °C
Range (imperial)	-40 °F to +140 °F
Resolution	0.01 °C
Accuracy	0.1 °C (calibrated)
Inputs per transmitter	2 (Input 1 + Input 2)
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 (DIGITAL PROBE)	
Sensor type	Digital temperature probe, glycol-bottle base (5 mL liquid glycol)
Range	-40 °C to +60 °C (-40 °F to +140 °F)
Resolution	0.01 °C
Accuracy	0.1 °C (calibrated)
Inputs	2 digital inputs (Input 1 + Input 2)
Probe connection	Mounting base, connects via extension cable
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, min/max reset, power-loss detection
Calibration	Calibration certificate included; unique serial number, auto-linked on platform

WHERE IT'S USED

- Freezer monitoring (-30 °C)
- Refrigerator & cold-room monitoring (4 °C)
- Ambient / room temperature monitoring (22 °C)
- Incubator monitoring (37 °C)
- Water-bath monitoring (60 °C)

ORDERING INFORMATION

ATEK Part Number	Description
ATEK-T-WF-1W	WiFi digital temperature transmitter, 2 inputs — -40 to +60 °C, 0.01 °C resolution, 0.1 °C accuracy

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

ATEK PLATFORM INTEGRATION

- Real-time temperature readings, trends, and alarms within seconds of each Wi-Fi uplink
- Two independent channels per transmitter — each input is logged, trended, and alarmed separately
- 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
- 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