



Features & Options

- NSF certified¹ with food and dishwasher safe materials
- User adjustable settings and onboard memory
- Transmits to a digital Gateway or a wireless-to-analog Receiver

BAPI's Wireless Food Probe measures the temperature and transmits the data via Bluetooth Low Energy to a receiver or gateway. The food probes eliminate the need for an employee to hand record the temperatures with a thermometer for HACCP compliance. Bin clips are available to fit most food bins. The probe is designed for dishwasher or hand washing.

Because the probes are designed for wet, dusty or dirty environments, there are many additional applications including cooling towers, steam humidifiers or dusty/wet conveyor systems.



Wireless Food Probe with and without optional bin clip

Probe with optional bin clip inside a bin

Specifications

Power: One included Lithium 1/2AA Battery, 3.6V

Temperature Sensor Accuracy:
(Calibrated using a NIST traceable reference)
±0.7°F (0.4°C) from 32 to 158°F (0 to 70°C)
±1.8°F (1.0°C) from 158 to 212°F (70 to 100°C)

Temperature Range: -4 to 221°F (-20 to 105°C)

Transmission Distance: Varies by application²

Environmental Operation Range:
Probe Only: -4 to 230°F (-20 to 110°C)
Entire Unit: -40 to 185°F (-40 to 85°C)
Washing Spike Temp: 212°F (100°C)
Humidity: 0 to 100% RH Condensing

User Adjustable Settings:
Delta T (Temp): 0.1°F/C to 5.0°F/C
Transmit Interval: 30 sec to 12 hour⁴
Sample Interval: 30 sec to 5 min⁴
Temp Offset: ±0.1°F/C to ±5.0°F/C

Onboard Memory:
Sensor retains up to 16,000 readings should the communication become interrupted. If using a Gateway, the data is re-transmitted once communication is re-established.

¹NSF certification applies to the Wireless Food Probe only.

²In-building range is dependent on obstructions such as furniture and walls and the density of those materials. In wide open spaces, the distance may be greater; in dense spaces, the distance may be less.

³Actual battery life is dependent on the sensor's adjustable settings and environmental conditions.

⁴The available transmit intervals and sample intervals are different depending on whether the system is using a gateway or a receiver.

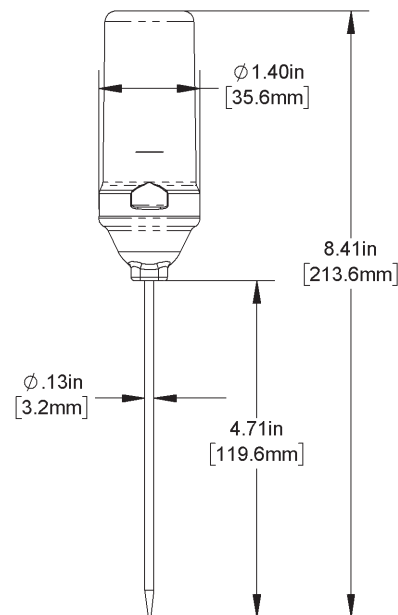
Enclosure Material: Food Safe Plastic

Frequency: 2.4 GHz (Bluetooth Low Energy)

Receiver Sensitivity: -97 dBm

Probe Material: 304 SS, 1/8" (3.2mm) diameter

Agency: RoHS / NSF Certified¹ /
FCC: T4FSM211222 / IC: 9067A-SM211222



Food Probe Calculated Battery Life ³		
Transmit Interval	Sample Rate	Estimated Life (years)
30 sec	30 sec	0.25
1 min	1 min	0.42
3 min	1 min	0.55
5 min	5 min	1.45
10 min	5 min	1.96





Ordering Information

PART NUMBER

BA/WFP-BLE-PT .. Wireless Food Temperature Probe

BA/BAT-5AA-HIT .. Lithium ½AA Battery, 3.6V, for the Wireless Food Probe

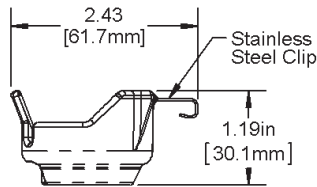
BA/FP-CLP4 Fixed Depth Clip for Stainless Steel Square Food Bins (Black Plastic)

BA/FP-CLP5 Fixed Depth Clip for Plastic Square Food Bins (Amber Plastic)

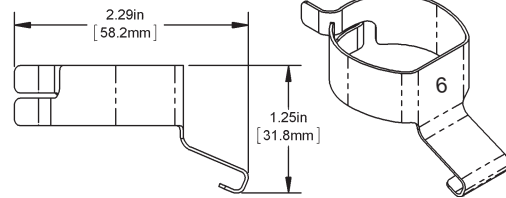
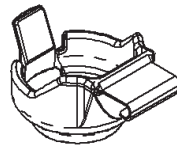
BA/FP-CLP6 Adjustable Depth Clip for Plastic Square Bins (“6” stamp on flat)

BA/FP-CLP7 Adjustable Clip for SS Square Bins (“7” stamp on flat)

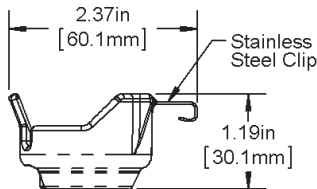
BA/FP-CLIP-KIT Clip Kit (includes 1 each of BA/FP-CLP4, BA/FP-CLP5, BA/FP-CLP6, BA/FP-CLP7)



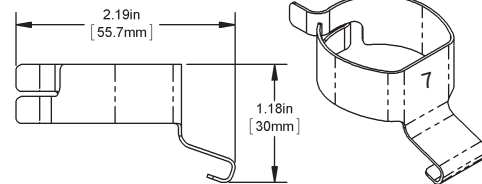
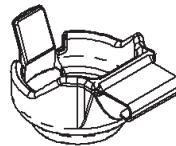
Fixed Depth Clip for Most Plastic Square Bins (Amber Plastic)



Adjustable Depth Bin Clip for Most Plastic Square Bins (“6” stamp on flat)



Fixed Depth Clip for Most Stainless Steel Square Bins (Black Plastic)



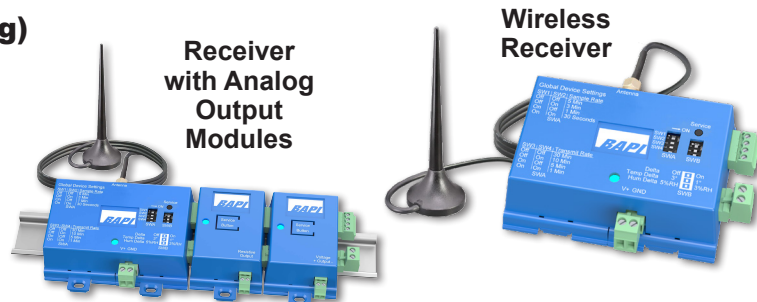
Adjustable Depth Bin Clip for Most SS Square Bins (“7” stamp on flat)



Wireless Receiver and Gateway

RECEIVER (Wireless-to-Analog)

The Wireless Receiver from BAPI receives the data from one or more wireless sensors. The data is then transferred to the Analog Output Modules and converted to an analog voltage or resistance. The receiver supports up to 32 sensors and up to 127 different Analog Output Modules.



GATEWAY

The Wireless Gateway from BAPI receives the data from one or more wireless sensors. The Gateway then provides the data to the cloud via MQTT. The Gateway also sends a confirmation signal to each sensor upon a successful reception of data. If the sensor doesn't receive this confirmation, it will retry its transmission to the Gateway. The Gateway supports up to 32 sensors.

