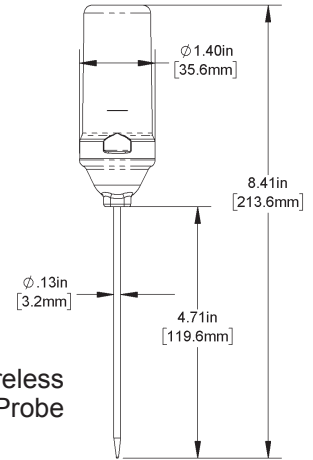


### Product Overview and Identification

Immersing the tip-sensitive probe into food measures the food temperature. The probe transmits the data to a receiver on a fully adjustable interval. The receiver transfers the data to either a computer or the BAPI WAM website.

The probe is attached to the bin with a stainless steel clip. A label inside the clear cover is used to indicate food type and bin location.



**Fig. 1:** Wireless Food Probe

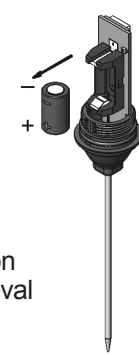
### Food Probe Preparation and Maintenance



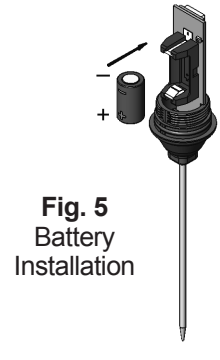
**Fig. 2:** Food Probe Clear Cover Removal



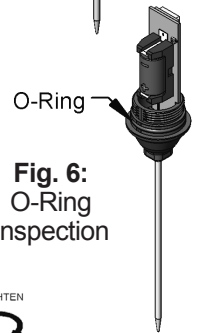
**Fig. 3:** Battery Tab Insulator Removal. The unit will begin transmitting at approximately 5 minute intervals.



**Fig. 4:** Battery Inspection and Removal



**Fig. 5:** Battery Installation



**Fig. 6:** O-Ring Inspection



**Fig. 7:** Clear Cover Replacement

### Battery and O-Ring Installation or Replacement

- 1. Cover Removal:** Unscrew (CCW) the clear cover from the black probe bottom (Fig. 2). Only use the plastic BAPI wrench or a crescent or 1/2" open end wrench to secure the black probe bottom. One BAPI wrench is included with each order or per each 25 probes. Do not use other tools or the stainless steel probe for leverage.
- 2. Battery Tab Insulator Removal:** The Food Probe is powered by a pre-installed battery. To activate the unit, find the battery tab insulator, pull it out and discard the tab (Fig. 3). The unit will begin transmitting at approximately 5 minute intervals. The transmission LED on the circuit board will illuminate during each transmission.
- 3. Battery Inspection and Removal:** Inspect the battery to be sure it is not corroded (Fig. 4). If it is corroded or suspected of being bad, remove it and replace it with a new battery. See the Material Safety Data Sheet for disposal and handling. If corrosion is noticed on the battery holder connectors, the unit must be sent into the factory for connector replacement.
- 4. Battery Installation:** Place the battery into the holder in the correct orientation (Fig. 5).
- 5. O-Ring Inspection:** Inspect the rubber O-Ring near the probe threads (Fig. 6). Install a new O-ring if it is kinked, broken or missing.
- 6. Clear Cover Replacement:** Hand-tighten (CW) the Clear Cover onto the black probe bottom (Fig. 7). Be careful not to cross thread as this will result in sensor failure. Screw on and hand tighten using the BAPI wrench, or a crescent or 1/2" open end wrench to secure the black probe bottom. **Note:** The cover and base are matched. After cover is removed, do not mix the covers with the bases.



### Start-up Sequence

1. As soon as the batteries are installed or the insulating battery tab is removed, the transmitter starts to transmit the temperature using the serial # code shown on the inner sleeve.
2. Although not visible on an assembled probe, a small Transmit LED on the circuit board indicates each transmission. This happens at 5 minute intervals (default). To force a transmission and avoid a wait, press the small button on the PCB board located just above the battery holder.

### Probe Cleaning

The Wireless Food probes can be hand washed or washed in a commercial or residential dishwasher.

#### **NOTES:**

1. Do not disassemble probe for cleaning.
2. Normal long-term use and washing will result in micro scratches which may cloud the plastic shell, but will not affect performance.
3. To avoid probe failure, DO NOT twist stainless steel probe tip.
4. To engage the water seal be sure the clear cover is screwed on securely (hand tight) before each washing cycle.
5. Metal brushes or copper/steel wool should never be used on the food probe.
6. Use of sanitizers at higher than 150°F will harm the plastic case and could cause water infiltration and damage the sensor. Washing the probe in a sanitizer over 150°F will void the warranty.

#### **HAND WASHING:** See notes above before starting.

1. Submersion in less than 6" of hot water <140°F (60°C) for less than 5 minutes with standard dishwashing detergent.
2. The use of a wash cloth, sponge or nylon brush is suitable. Metal brushes or copper/steel wool are not acceptable.
3. Thoroughly wash the stainless steel probe tip without bending or twisting the sensor tip.
4. Thoroughly wash the plastic case, removing all food particles.
5. Rinse the probe and towel dry or place in storage rack to dry.
6. Place the probe in the storage rack to await the next use.

#### **DISHWASHER:** See notes above before starting.

1. Standard dishwasher detergents and rinse agents will not harm the probe or plastic.
2. Sanitizers with water temperatures higher than 150°F (65°C) are not recommended.
3. Typical dishwasher cycle times of less than 5 minutes at less than 165°F (74°C) are acceptable.
4. Typical rinse cycles of less than 5 min. at less than 212°F (100°C) are acceptable. However, a rinse with sanitizer should not exceed 150°F (65°C).
5. Place the food probe into the washer rack or flatware rack loosely so that all sides of the probe will be exposed to washing fluid. The probe can be in any orientation. (up/down/or on its side)

### Minimum Standard Maintenance:

- Check or replace batteries at yearly intervals. (Normal battery life is approximately 1 year at default transmission interval.)
- Check or replace O-ring at yearly intervals. (It should be smooth without kinks or scars.)
- Check the probe accuracy regularly in an ice bath.

**Ice Bath Directions:** Prepare an ice bath with slurry of 70% pea sized crushed ice and 30% prechilled (38°F) distilled water in at least a 1 gallon insulated cooler. The bath should be left to acclimate for 5 minutes before submerging the probe tip for testing. Submerge each stainless steel probe tip completely into the center of the ice bath, (2.5" submersion minimum). Do not let the probe tip touch the wall of the container. Avoid submerging the probe plastic. After 5 minutes, or a steady reading, the temperature should be 32°F (0°C), ±0.9°F (.5°C). Note: Altitude has very little effect on the melting point of ice.

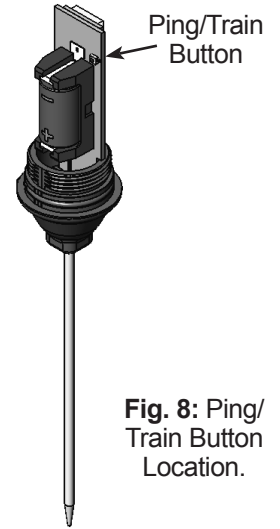
Specifications subject to change without notice.

### Wireless Sensor Reset

Pressing the “Ping/Training” button on a wireless sensor for 15 seconds will reset the sensor to the original factory default settings (which are accessed through the associated Gateway receiver). This reset procedure can be used to re-establish communication between the sensor and the Gateway if communication is lost due to mismatched addresses. The address of the sensor will be reset to the default: 42415049. This default address can then be entered for the Gateway (as described in the Gateway instructions document “39021\_RCV\_900\_BACnet.pdf”) to re-establish communication with the sensor. Once communication is established, the address of the Gateway and the sensor can be returned to the previous address to re-establish communication with the other sensors on the network (as described in the Gateway instructions document “39021\_RCV\_900\_BACnet.pdf”).

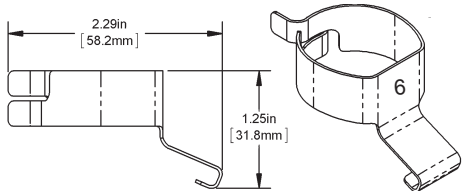
Besides resetting the wireless address, the reset procedure will also return the sensor to these default values:

- Channel = 1, 3 • Transmit power = 0 dBm • Reported intervals = 300 seconds
- Sample Interval = 300 seconds • AES key = not affected by the reset procedure
- Battery warning Voltage = 2.5 • All offsets = 0

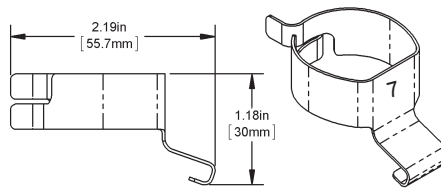


**Fig. 8:** Ping/Train Button Location.

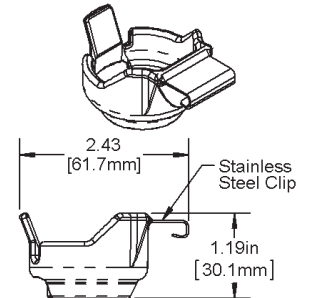
### Accessories



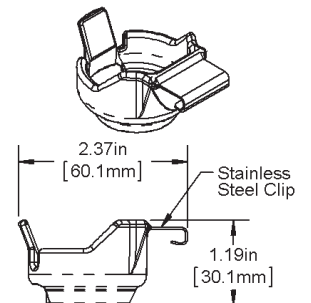
**Adjustable Depth Bin Clip (BA/FP-CLP6)**



**Adjustable Depth Bin Clip (BA/FP-CLP7)**

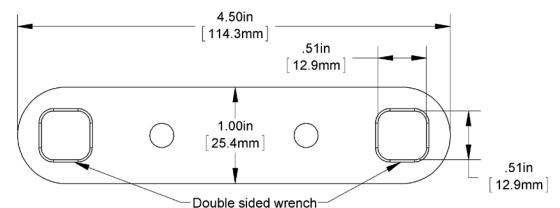


**Amber Fixed Depth Clip (BA/FP-CLP5)**



**Black Fixed Depth Clip (BA/FP-CLP4)**

Part Number	Description
<b>BA/FP-CLP4</b> .....	Fixed Depth Clip for Stainless Steel Square Food Bins - Black Plastic. (Use with B4 or B3 probes for 6” deep bins or S5 probe for 7” deep bins.)
<b>BA/FP-CLP5</b> .....	Fixed Depth Clip for Plastic Square Food Bins - Amber Plastic. (Use with B4 or B3 probes for 6” deep bins.)
<b>BA/FP-CLP6</b> .....	Adjustable Depth Clip for Plastic Square Bins - “6” stamp on flat. (Use with B4 or B3 probes for 6” deep bins.)
<b>BA/FP-CLP7</b> .....	Adjustable Clip for SS Square Bins - “7” stamp on flat. (Use with B4 or B3 probes for 6” deep bins or S5 probe for 7” deep bins.)
<b>BA/FP-CLIP-KIT</b> .....	Clip Kit (includes 1 each of BA/FP-CLP4, BA/FP-CLP5, BA/FP-CLP6, BA/FP-CLP7)
<b>BA/BAT-5AA-HIT</b> .....	Replacement Battery, 3.6V, 1/2-AA, High Temperature
<b>BA/FP-CRT1</b> .....	Food Probe Plastic Cap Removal Tool
<b>BA/FP-O-RING-5</b> .....	Food Probe O-Ring (5 per package)



**Food Probe Cap Removal Tool**

Specifications subject to change without notice.



### Diagnostics

#### Potential Problems:

Unit will not transmit

#### Potential Solutions

- Check that the battery is installed correctly. (See Fig. 8 on page 1.)
- Check battery voltage level through the wireless Gateway interface. It should be > 2.8VDC. (Replace if it is too low.) Check for corrosion on the battery or battery leads. (If there is corrosion, clean battery connections and replace battery. See pg 2.)

Unit not being received

- Check all battery power solutions above.
- Move Food Probe closer to the Receiver. (It may be out of range.)
- Perform the "Wireless Sensor Reset" procedure as described above and in the Gateway instructions document "39021\_RCV\_900\_BACnet.pdf" available on the BAPI website or by contacting BAPI.

### Bin Clip and Tray Lid Compatibility

There are many food tray bins. BAPI has tested a few of them for your convenience. Since many trays have similar designs, the food probe clips will fit most of them.

#### TESTED ADJUSTABLE CLIP BA/FP-CLP6 FOR PLASTIC BINS

<u>Manufacture</u>	<u>Model</u>	<u>Material</u>
Rubbermaid	Amber Inserts	Plastic
Characin	Series HPC	Plastic

#### TESTED ADJUSTABLE CLIP BA/FP-CLP7 FOR SS BINS

<u>Manufacture</u>	<u>Model</u>	<u>Gauge St. Steel</u>
Update International	Series NJP	24 GA.
Update International	Series SPH	22 GA.
Libertyware	Series 5000	24 GA.
Libertyware	Series 9000	22 GA.
Johnson Rose	Series 58000	24 GA.
Johnson Rose	Series 57000	22 GA.
Polarware	Series "E"	22 GA.
Polarware	Series "S"	20 GA.
Vollrath		Super Pan V™
Carlisle Polycarbonate	Polycarbonate pans	

### FCC Wireless Certification and Interference Statement

#### Wireless Food Probe Transmitter (WFP900) - FCC ID: T4FWFP900

This equipment has been tested and found to comply with the limits for a class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy, and if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio / TV technician for help.

In order to maintain compliance with FCC regulations, shielded cables must be used with this equipment. Operation with non-approved equipment or unshielded cables is likely to result in interference to radio and TV reception. The user is cautioned that changes and modifications made to the equipment without the approval of the manufacturer could void the user's authority to operate this equipment.

Specifications subject to change without notice.