

**(FAST.)<sup>®</sup>**  
**the time is right.**

## Installation Instructions

- **Universal Adapter**
- **Bezel Adapter**
- **Wireless.Gateway Adapter**



Universal Adapter  
 for TRACKER<sup>®</sup> Timers, Fryers and Ovens



Bezel Adapter  
 for Fryers



Wireless.Gateway  
 Adapter



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 Service Techniques, Inc.



24/7 Toll-Free Technical Support

**1-800-243-9271**

(from the U.S., Canada and the Caribbean)

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## **Introduction**

Thank you for your purchase. In choosing FAST, you have chosen a product with over 35 years of innovation and quality manufacturing behind it. FAST's new Xwire™ line of Mesh Network Protocol wireless communication products allow Foodservice and Restaurant Operators the ability to efficiently link multiple appliances and timers for synchronizing food equipment and monitoring inventory levels, energy consumption and usage levels.

The following will guide you through installing an Xwire Universal Adapter for FAST TRACKER™ Timers and fryers and ovens, the Xwire Bezel for VC-210 and EM-99 Process Controllers, and the Wireless.Gateway Adapter.



**Changes or modifications not expressly approved by FAST, Inc. could void the user's authority to operate the equipment.**

NOTE: 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.



**FAST is not liable for any use of product not in accordance with FAST's installation and operating instructions.**

**BEFORE USING THIS EQUIPMENT, OR FOR ANY QUESTIONS ON THE OPERATION OF THE APPLIANCE, CONSULT AND FOLLOW ALL INSTRUCTIONS AND SAFETY WARNINGS FOUND IN THE APPLIANCE OPERATOR'S MANUAL SUPPLIED FROM THE MANUFACTURER OF THE APPLIANCE.**

## Universal Adapter for TRACKER® Timers



### REQUIRED PARTS

- (A) Xwire Universal Adapter for TRACKER Timers  
FAST Part No. 231-60208-01
- (B) Xwire Harness for TRACKER Universal
  - i. 12" FAST Part No. 222-50700-01
  - ii. 48" FAST Part No. 222-50700-02
- (C) Velcro Brand Fastener

### INSTALLATION

1. Connect harness to the communication port on the top of the TRACKER Timer.
2. Connect other end of harness to the FAST Xwire Universal Adapter.  
Mount the Xwire Universal Adapter using the supplied Velcro. *Note: Mount in a place that FAST Wireless.Gateway will receive signal.*
3. Verify the LED sequence on the Xwire is correct per your application using the following information.

### Signal Strength Indicators

	<b>STRONG</b> All bars are lit red.
	<b>WEAK</b> Not all bars are lit red.
	<b>STATUS LED</b> See chart for details.

### Status LED Chart

LED Color	LED Blink Rate	Description
RED	Solid On	Device is connected as a router
RED	Slow	Device is waiting for data from its parent node
RED	Very Fast	Device is communicating with another device as a router. Signal bars should exist
GREEN	Solid On	Device is connected as a coordinator
GREEN	Very Fast	Device is communicating with another device as a coordinator. Signal bars should exist.
ORANGE	½ sec ON, ½ sec OFF	Device cannot communicate with the SCK device after already connecting to the wireless network.
ORANGE	2 sec ON, 2 sec OFF	Zigbee stack has returned an error (problem resetting the radio chip) or Device is initializing either at start up or after manually changing PAN IDs

### Signal LEDs

Bars	Link Quality
NONE (0)	No signal or No messages received
ONE (1)	Moderate signal
TWO (2)	Good signal
THREE (3)	Excellent signal

### Special States

LED Action	Description
Strobe effect using all LEDs	Device is scanning the channels for available networks
All LEDs blink on and off simultaneously every 500ms	Device has detected a multiple SCK address conflict and is waiting for resolution

4. The TRACKER is now ready to be used as an Xwire wireless device.

## Universal Adapter for Fryers and Ovens



### REQUIRED PARTS

- (A) Xwire Universal Adapter for Fryers and Ovens  
FAST Part No. 231-60208-01
- (B) Self-tapping Connectors (included)  
FAST Part No. 141-51026  
Qty. 2
- (C) Xwire Harness: Choose One
  - i. FAST Part No. 222-50702-01
  - ii. FAST Part No. 222-50701-01
  - iii. FAST Part No. 222-50701-02
- (D) Velcro Brand Fastener

### INSTALLATION

1. Pull controller away from appliance. Locate wires numbered 1 and 3 in either the 15-pin connector or the 9-pin connector (depending on the controller) on the back of the controller. These are your 24VAC.
2. Clamp the self-tapping connector to these wires to provide a 24VAC output to the Xwire Bezel Adapter and also the two pigtail wires that are supplied.
3. Connect the two pigtail wire terminals to the pair coming from the harness.
4. Connect the 3- or 4-pin Molex (depending on controller) from the harness to the controller.
5. Drill a hole in the back of the appliance to feed harness through.
6. Connect harness to FAST Universal X-Wire and mount using Velcro tape that is supplied.

**(i)** **Note: Mount in place that FAST Gateway will receive signal.**

7. Mount controller in the back of the appliance and verify the LED sequence on the Xwire indicator is correct per your application using the following information.

### Signal Strength Indicators

	<b>STRONG</b> All bars are lit red.
	<b>WEAK</b> Not all bars are lit red.
	<b>STATUS LED</b> See chart for details.

### Status LED Chart

LED Color	LED Blink Rate	Description
RED	Solid On	Device is connected as a router
RED	Slow	Device is waiting for data from its parent node
RED	Very Fast	Device is communicating with another device as a router. Signal bars should exist
GREEN	Solid On	Device is connected as a coordinator
GREEN	Very Fast	Device is communicating with another device as a coordinator. Signal bars should exist.
ORANGE	½ sec ON, ½ sec OFF	Device cannot communicate with the SCK device after already connecting to the wireless network.
ORANGE	2 sec ON, 2 sec OFF	Zigbee stack has returned an error (problem resetting the radio chip) or Device is initializing either at start up or after manually changing PAN IDs

**Signal LEDs**

Bars	Link Quality
NONE (0)	No signal or No messages received
ONE (1)	Moderate signal
TWO (2)	Good signal
THREE (3)	Excellent signal

**Special States**

LED Action	Description
Strobe effect using all LEDs	Device is scanning the channels for available networks
All LEDs blink on and off simultaneously every 500ms	Device has detected a multiple SCK address conflict and is waiting for resolution

- The FAST controller is now ready to be used as an Xwire wireless device.



**REQUIRED PARTS**

- Xwire Bezel Adapter  
FAST Part No. 231-60206-01
- Self-tapping Connectors (included)  
FAST Part No. 141-51026  
Qty. 2

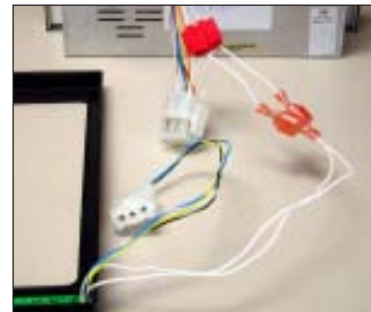
**INSTALLATION**



- Locate wires numbered 1 and 3 in the 9-pin connector on the VC-210 or EM-99.
- Clamp self-tapping connector to these wires to provide a 24VAC output for the bezel.



- Connect the two spade terminals to the pair coming from the bezel.



## Xwire™ Adapter Installation

INSTALLATION: Bezel Adapter for VC-210 and EM-99 Controllers, continued

- Connect the 3-pin Molex connector on the bezel to the 3-pin Molex on the controller.






- Position the Xwire bezel onto the front of the controller. Carefully, place the five bezel wires into the channel on the controller.



- Install the controller on the fryer and verify the LED sequence is correct per your application using the following information.

### Signal Strength Indicators

	<b>STRONG</b> All bars are lit red.
	<b>WEAK</b> Not all bars are lit red.
	<b>STATUS LED</b> See chart for details.

### Status LED Chart

LED Color	LED Blink Rate	Description
RED	Solid On	Device is connected as a router
RED	Slow	Device is waiting for data from its parent node
RED	Very Fast	Device is communicating with another device as a router. Signal bars should exist
GREEN	Solid On	Device is connected as a coordinator
GREEN	Very Fast	Device is communicating with another device as a coordinator. Signal bars should exist.
ORANGE	½ sec ON, ½ sec OFF	Device cannot communicate with the SCK device after already connecting to the wireless network.
ORANGE	2 sec ON, 2 sec OFF	Zigbee stack has returned an error (problem resetting the radio chip) or Device is initializing either at start up or after manually changing PAN IDs

### Signal LEDs

Bars	Link Quality
NONE (0)	No signal or No messages received
ONE (1)	Moderate signal
TWO (2)	Good signal
THREE (3)	Excellent signal

### Special States

LED Action	Description
Strobe effect using all LEDs	Device is scanning the channels for available networks
All LEDs blink on and off simultaneously every 500ms	Device has detected a multiple SCK address conflict and is waiting for resolution

- The FAST controller is now ready to be used as an Xwire wireless device.

## Wireless.Gateway Adapter






### REQUIRED PARTS

- (A) Wireless.Gateway Adapter  
FAST Part No. 231-60207-01
- (B) USB Cable, 5M  
FAST Part No. 141-15734

### INSTALLATION

1. Connect USB cable to the communication port on the Wireless.Gateway.
2. Connect other end of USB cable to the USB port on your computer.
3. Verify the LED sequence on the Xwire is correct per your application using the following information.

### Signal Strength Indicators

	<b>STRONG</b> All bars are lit red.
	<b>WEAK</b> Not all bars are lit red.
	<b>STATUS LED</b> See chart for details.

### Status LED Chart

LED Color	LED Blink Rate	Description
RED	Solid On	Device is connected as a router
RED	Slow	Device is waiting for data from its parent node
RED	Very Fast	Device is communicating with another device as a router. Signal bars should exist
GREEN	Solid On	Device is connected as a coordinator
GREEN	Very Fast	Device is communicating with another device as a coordinator. Signal bars should exist.
ORANGE	½ sec ON, ½ sec OFF	Device cannot communicate with the SCK device after already connecting to the wireless network.
ORANGE	2 sec ON, 2 sec OFF	Zigbee stack has returned an error (problem resetting the radio chip) or Device is initializing either at start up or after manually changing PAN IDs

### Signal LEDs

Bars	Link Quality
NONE (0)	No signal or No messages received
ONE (1)	Moderate signal
TWO (2)	Good signal
THREE (3)	Excellent signal

### Special States

LED Action	Description
Strobe effect using all LEDs	Device is scanning the channels for available networks
All LEDs blink on and off simultaneously every 500ms	Device has detected a multiple SCK address conflict and is waiting for resolution



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## Warranty

FAST provides a limited one-year warranty for its products (except probes and hoses for which the period is 90 days). A copy of the exact provisions of this warranty and the other terms and conditions of sale are available upon request.

## Timer Operating Environment

**Please Note:** The solid state components in this controller are designed to operate reliably in a temperature range up to 158°F / 70°C. Before installing this controller, it should be verified that the ambient temperature at the mounting location does not exceed 158°F / 70°C.

## Patents

The products manufactured by FAST are protected under one or more of the following U.S. Patents:

4,782,445	4,812,625	4,812,963
4,864,498	4,911,068	4,920,948
5,043,860	5,171,974	5,331,575
5,539,671	5,711,606	5,723,846
5,726,424	5,875,430	6,142,666
6,339,930	6,401,467	6,505,546
6,581,391	7,015,433	

Plus foreign patents and patents pending.  
Plus licensed patent: 5,973,297

## Customer Service and Technical Assistance

Our customer service department is available for orders and questions Monday through Friday between the hours of 8 AM and 5 PM EDT. Call us toll-free at **1-800-FASTRON** (327-8766) if you're in the US, Canada or the Caribbean, or at 203-378-6860 if you're outside of these areas.

Toll-free technical assistance is available 24 hours a day, 365 days a year by calling **1-800-243-9271** (from the U.S., Canada and the Caribbean) when help is needed immediately.

You can also send an instant email message to a FAST technician, Monday through Friday, 8am-5pm EDT, by going to [www.fastinc.com](http://www.fastinc.com), selecting the 'Support' link at the top of the page, and clicking on 'Email Us.'

## Free Program for Service Exchanges

FAST provides an Exchange Program, at no extra cost, if a unit should fail. In the event of failure, you have the option of (1) receiving a replacement product from our factory, freight prepaid; (2) exchanging the failed product for a replacement product at one of our authorized local service centers; or (3) selecting on-site repair or replacement of the failed unit by one of our authorized local service centers.

To take advantage of this program, simply call our toll-free customer service number, 1-800-243-9271. If you elect to receive an exchange unit from the factory, a replacement unit will be sent immediately. Upon receipt of the replacement unit, simply return the failed unit to the factory, freight prepaid, using the same carton and packing material in which the replacement unit was shipped. The unit will be replaced free of charge, if still under warranty, and if the product shows no evidence of abuse or alteration. If the unit is not under warranty, you will pay repair charges and shipping costs to and from the factory. If you should elect on-site repair and the unit is under warranty, you will not be required to pay the costs of reasonable on-site labor, but will be required to pay the service agency's travel charges to and from the on-site location.

Any minor adjustment or calibration and any labor costs for the replacement of probes will be made at your expense.

The FAST Exchange Program is available to any FAST Domestic Customer whose account is current, and applies to all FAST Timers, Computers and Controllers.



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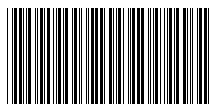
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