(FASTRON.)®

Meridian™

Operating Instructions
for the MEC-110 with ENHANCED SMS

10-Product Cooking Controller
Model 231-60210-02

(FAST.)®

the time is right.

Toll-Free Technical Support
24 Hours A Day, 365 Days A Year
(from the U.S., Canada and the Caribbean)
1-800-243-9271

$5.00 USD

Notices   ⓘ   **(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.

Not all features are available on some models.

Controller Operating Environment

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.

Cleaning the Controller

Using a clean damp cloth, wipe down your controller daily using a commercial quality foodservice-approved detergent.

Do not allow oil to build up on any part of the controller.

⚠️   **NEVER use chemical or abrasive cleaners on your controller. The controller's overlay may be damaged.**

24/7 Tech Support:
**1-800-243-9271**

Installation

Tools Required

– Straight Screwdriver

1. Turn appliance power OFF.
2. Connect the wire harness to the controller.
3. Attach the 2 provided tinnerman nuts to the controller. Be sure to line up the holes.
4. Hold the controller against the front panel.
5. Secure the controller to the appliance using the 2 provided screws.

Programming Codes

Product Programming   1 7 2 4
System Programming   3 2 2 8

Controller Features
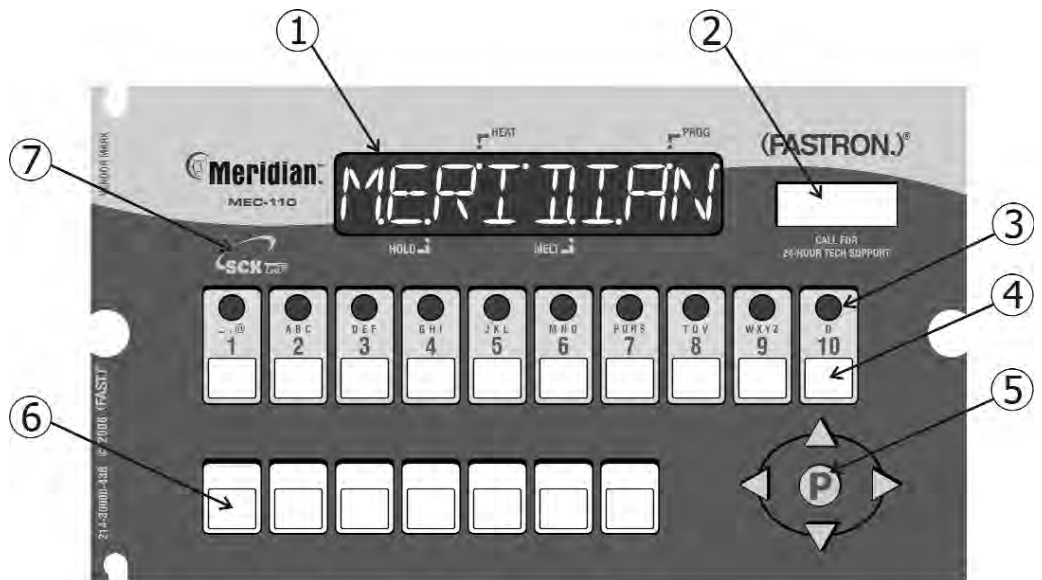
1	LARGE LED DISPLAY: 8-character, 14-segment. Displays programming and cook cycle information.
2	SERVICE WINDOW: Locate the controller's serial number and tech support phone number easily.
3	INDICATOR LIGHTS: lit when there's an active cook cycle and in programming mode.
4	PRODUCT KEYS: Press to start a cook cycle. Also used in programming. REPLACEABLE MENU STRIP: Make menu changes quickly and easily.
5	PROGRAMMING CENTER: Easy cell phone-like programming. Access programming mode and change cooking parameters.
6	FEATURE KEYS: Used to access programming functions and controller features; keys will vary by model.
7	SCK LINK: Signifies that your control is communications-capable.

Features Explained

Programmable Action Alarms

Up to three action alarms can be programmed for each product key. An action alarm alerts the operator to perform some action at a pre-programmed time.

Programmable Appliance Type

A specific type of appliance; i.e., gas, electric or generic can be programmed into the controller.

Energy Saving Manual Setback

Setback, an **energy-saving feature**, will lower the temperature of the oil after a pre-determined amount of inactive time (1 to 59 minutes). Temperature is programmable from 200-300°F (93.3-148.8°C). Enter setback mode by pressing the SETBACK key. The controller will display *COOL* or *SETBACK* and will control the appliance to the programmed setback temperature.

Fahrenheit or Celsius Temperature Display

The controller can be configured to display the temperature in degrees Fahrenheit or Celsius (accessible through System Programming mode).

Programmable (FAST.Flex)™ Timing Mode

Flex or straight timing can be configured for each stage on each product key. To insure consistent, high-quality food product, **flex time** will adjust the actual cook time taking into consideration the temperature variation due to load size, initial product temperature, product moisture content, and other factors affecting the cook cycle. If cooking by **straight time**, the controller will cook only for the specified time without adjusting for these variances.

Programmable Filter/Polish Mode

To aid in extending the life of your oil, this Meridian Controller will alert the operator at pre-programmed times or number of products cooked when it is time to filter the oil by displaying the *FILTER* prompt. If the prompt is flashing, cooking can still be performed. If the prompt is solid, the filter procedure must be executed. A filter can also manually be forced at any time of the day.

Programmable Filter Lockout Cycle Count

Ensure good-tasting food is always served to your customers by requiring the oil be filtered after "x" amount of times. Any product key with Filter Lockout programmed will cease to operate until the oil is filtered. A filter lockout cycle count (valid range is 0 to 99) can be programmed for each product key. To disable filter lockout, enter 0 for the filter lockout count.

Programmable Global Filter Lockout

A single filter lockout cycle count can be programmed to apply globally to all product keys.

Programmable Hold Time Linking

Each product key can be linked to an independent hold timer, or multiple product keys can be linked to a single hold timer.

Features Explained
CONTINUED

Programmable Hold Times

Product key hold times can be programmed to track product quality through a specified holding period. Hold time countdown begins as soon as the cook cycle is complete. The controller will sound an alarm when the product's hold time has expired alerting the operator to discard the product.

Automatic Least Hold Display

Product with the least amount of cook time remaining will be shown in the display. Pressing and hold the SCAN key allows you to view each active product's remaining cook time.

Melt Cycle

If the vat temperature is below the Melt Limit Temperature and the controller is ON, it will control the melting of the oil.

Programmable Operating Mode

The controller can be programmed to operate as either a controller or timer.

Programmable Pressure Valve

The pressure valve state for each stage on each product key can be programmed. The valve can be open or closed.
Note: The valve is normally open when not cooking.

Programmable Stage Temperatures

Cook temperatures for each stage on each product key can be programmed. The valid temperature range is 200°F to 400°F (93.3°C to 204.4°).

Programmable Stage Times

Cook times for each stage on each product key can be programmed. The controller is programmable in minutes (up to 99) and seconds (up to 59) and allows up to ten stages per product key.
Note: Multiple cook starts are not allowed if a product key has more than one stage programmed.

Operating the Controller

Start a Cook Cycle

Press any product key to start a cook cycle. If the key is programmed, the correct cooking time will be displayed and will immediately start to count down in minutes and seconds. *DONE* will display when the cook cycle has ended.

The pressure solenoid will also close if programmed to do so, or a basket lift will lower if so equipped.

If *DONE* is displayed immediately and the unit starts to signal, the product key being pressed is not programmed.

Stop a Cook Cycle

Press and hold an active product key for 3 seconds. Timing will stop.

Respond to a DONE Alarm

Cancel the signal by pressing the same product key used to start the cook cycle.

Action Alarms

If the controller is programmed for action alarms, they will signal at a preset time during the cooking cycle. The signal, a dual-rhythm beeping, will last 5 seconds and then self-cancel. The display will flash the action alarm time and the controller will start counting toward *0:00*.

Holding Timers

If the controller is programmed with holding times, they will automatically start counting upon expiration of the cooking cycle.

When there are active hold times, the HOLD indicator light will be lit.

To **View All Active Hold Times**, press and hold the HOLD key. Upon expiration, the timer will display *HOLD* and pulse with an audible tone.

To Cancel, press the HOLD key.

Operating the Controller
CONTINUED

⚠️

Boil Mode

CAUTION: THE USER MUST CONSULT AND FOLLOW THE APPLIANCE MANUFACTURER'S GUIDELINES FOR CLEANING AND BOILING OF THE FRY VATS. If your fryer manufacturer recommends this procedure, the boil function accurately maintains the fryer temperature at 190°F (88°C) to assist in the cleaning of fry vats. To start the boil process, turn the appliance OFF. Empty the fry vat of oil. Once the vat is emptied of oil and refilled with cold water, the controller and fryer may now go into boil mode.

> **The fry vat must be below a temperature of 255°F (124°C) to enter the boil mode.**
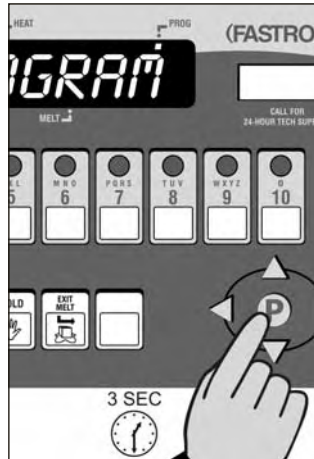
NOTE: The fry vat will maintain a temperature of 190°F (88°C) to allow the boil function to be performed.

To **Enter Boil Mode**: Press and hold the P key for 3 seconds. *PROGRAM* will be displayed.

Press the up or down arrow keys until *BOIL* is displayed, then press the P key. The feature is now activated and *BOIL* will be displayed.

To **Exit Boil Mode**, press and hold the P key for 3 seconds. *PROGRAM* will be displayed.

Press the up or down arrow keys until *BOIL* is displayed, then press the P key. This will exit you from the boil mode. If the controller has an ON/OFF key, you can also exit by pressing OFF and then ON.

Turn the appliance OFF. The controller will no longer display BOIL. Empty the water from the vat and wipe away all remaining water. Once dry, refill the vat with oil.

⚠️ **CAUTION: Refill the vat with oil ONLY when it is completely dry.**

Fill Mode

If the controller is programmed for filter lockout, *FILTER* will appear in the display after the pre-programmed number of cook cycles allowed. The controller will stop operating until the fryer is filtered. After filtering, the display will read *FILL*. **At this time, the fryer MUST be refilled with oil.** When this step is complete, press ENTER to resume normal operations.

Operating the Controller
CONTINUED

Product Counts
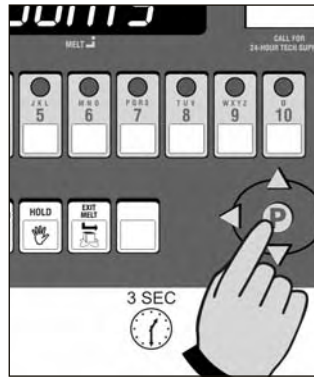
To **Check Product Counts**: press and hold the P key for 3 seconds. *COUNTS* will be displayed.

Press the P key. *GLOBAL* will be displayed then the total number of cook counts will be shown.

Press the P key. *FILTRCNT* will be displayed then your total filter count will be shown.

Press the P key. *DISPCNT* will be displayed then your total disposal count will be displayed.

Press the P key. *TOTALX10* will be displayed then your total x 10 global count will be shown. Then press the P key.

To **Exit Product Counts**: *COUNTS* will be displayed. Press the up arrow key. *EXIT* will be displayed. Press the P key. The controller will exit programming mode.

Filter / Polish

When filtering is performed, the oil must be dumped from the vat for 3 minutes. The filter countdown will then begin at 7 minutes, at which time the Polish should be performed. At the end of polishing operation, the display will show *FILL*. Return the oil to the vat.

Press the ENTER/EXIT FILTER key to clear the message and go into an idle state. The oil will be heated to the correct pre-programmed temperature.

Force A Filter
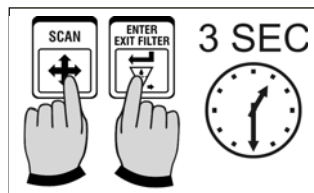
To **Force A Filter** at any time of the day: press and hold the SCAN and ENTER/EXIT FILTER keys at the same time for 3 seconds. *FILTER* will be displayed and an alarm will be heard.

Press the ENTER/EXIT FILTER key to start the filtering sequence.

Display Descriptions

`LO`

Controller is in Operating Mode. Actual vat temperature is more than 10 degrees below the programmed vat temperature.

`- - - - - - - - -`

`DROP`

`READY`

Controller is in Operating Mode. Actual vat temperature is within the proper cooking temperature range. The vat is ready to start a cook cycle.

`HI`

Controller is in Operating Mode. The actual vat temperature is more than 40 degrees above the highest programmed vat temperature. A continuous audible alarm will sound.

`PROBE`

Controller's probe is either open or shorted. Display will be accompanied with an audible alarm if shorted. Check or replace the probe.

`2:30`

Controller is in Operating Mode and a cook cycle is in progress.

`DONE`

Controller is in Operating Mode and a cook cycle has been completed.

`CODE`

Controller is waiting for a pass code to be entered.

`PRODUCT`

Controller is in Product Key Programming Standby mode.

`TIME 1`

Stage cooking time (1-10) is displayed.

`TEMP 1`

Stage cooking temperature (1-10) is displayed.

`TIMING 1`

Stage timing mode (1-10) (flex or straight) is displayed.

`ALMTIME1`

Action alarm status is displayed.

`FILL`

After fryer is filtered, this display prompts you to refill the fryer with oil.

`SYSTEM`

Controller is in System Programming Standby Mode.

`TEMPUNIT`

Controller is in Fahrenheit or Celsius Programming Mode.

`APPLIANC`

Controller is in Appliance Type Programming Mode.

Product Key Programming

RECIPE 1724 STORE EMPLOYEE

ⓘ 18 button controllers have two displays that show a full line of information; for example:

`TIME          2:00`

10 button controllers have a single, dual-purpose display that will alternate information; for example:

`TIME`   then   `2:00`

ENTER PROGRAMMING MODE.
Press and hold the P key for 3 seconds.

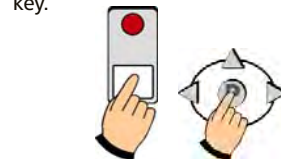`COUNTS`

Press the down arrow key.

`PROGRAM`

Press the P key.

ⓘ

Some controllers may have different options listed.

`CODE`

Type in 1 7 2 4 using the product keys. Press the P key.

`RECIPE`

Press the P key. All product key LEDs will light up.

`PRODUCT`

PROGRAM A PRODUCT KEY. Press the product key you want to program. Press the P key.

Depending on model, you can either press the P key to change all programmable settings or you can scroll using the arrow keys to any of the specific options.

`ALL`

Press the P key.

`NAME`
`XXXXXXX`

SET PRODUCT DISPLAY NAME. NAME will be displayed then the actual product name. Use the up and down arrow keys to scroll through the library. Press the P key to lock in your choice.
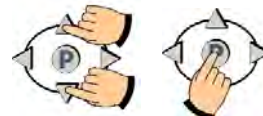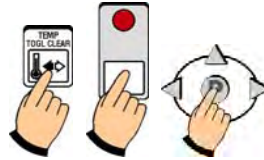
## Product Key Programming
CONTINUED

`TIME 1` `XX:XX`

SET COOK TIME. Actual set time will be displayed. To change, press toggle clear to change the time to zero. Type in a new time using the product keys. Press the P key.
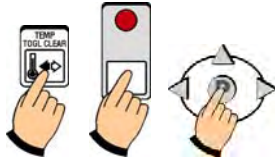
`TEMP 1` `XXXF`

SET COOK TEMPERA-TURE. Actual set temperature will be displayed. To change, press toggle clear to change the temperature to zero. Type in a new temperature using the product keys. Press the P key.

`TIMING 1` `STRAIGHT` `FLEX`

SET TIMING MODE. Use the left and/or right arrow keys to choose Straight or Flex. Press the P key.

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*NOTE: On some models, each product key can be programmed with up to 10 stages. If no additional stages are required at this point, set the time to zero. Press the P key to continue to Action Alarm.

`TIME 2` `XX:XX`

SET COOK TIME #2. Actual cook time will be displayed. To change, press toggle clear to change the time to zero. Type in a new time using the product keys. Press the P key. Repeat previous steps.*

Some models have up to 3 action alarms.

`ALMTIME1` `XX:XX`

SET ACTION ALARM. Actual alarm time 1 will be displayed. To change, press toggle clear to change the time to zero. Type in a new time using the product keys. Press the P key.
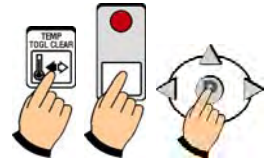
`ALMNAME1` `XXXXXXX`

SET ACTION ALARM NAME. ALMNAME1 will be displayed, then the actual action alarm name. Use the up and down arrow keys to scroll through the library. Press the P key to either go to next action alarm name, or continue through programming.
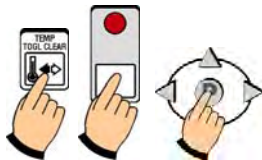
`ALMCNCL1` `AUTO` `MANUAL`

SET ACTION ALARM CANCEL MODE. ALMCNCL1 will be displayed, then the action alarm mode. Use the left and right arrow keys to choose AUTO or MANUAL. Press the P key to save and continue.

`ALMTONE1` `XXXXXXX`

SET ACTION ALARM TONE. ALMTONE1 will be displayed, then the action alarm tone: *DOUBLE, SHORT, MEDIUM, LONG, LONG SHT, NONE.* Use the left and right arrow keys to choose an alarm tone. Press the P key to save and continue.
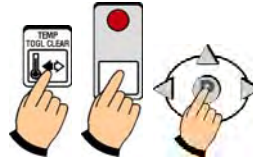
Product Key Programming
CONTINUED

`HOLD`
`YES`
`NO`

SET HOLD. Hold time mode will be displayed. To change, use the left and right arrow keys to choose YES or NO. Press the P key to save and continue.

`WEIGHT`
`          X`

SET WEIGHT. WEIGHT will be displayed, then a number. To change, press toggle clear to change the number to zero. Type in a new weight (1-99) using the product keys. Press the P key to continue.
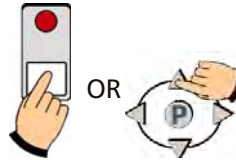
`ALL`

EXIT PROGRAMMING MODE. Press the up arrow key.

`EXIT`

Press the P key.

`PRODUCT`

Either press another product key to program and repeat the programming instructions, or exit by pressing the up arrow key.

OR

`EXIT`

Press the P key.

`RECIPE`

Press the up arrow key.

`EXIT`

Press the P key.

`READY`

You have now EXITED Product Key Programming Mode and can operate the controller.

System Programming

SYSTEM 3228 STORE MANAGER

ENTER SYSTEM PRO-GRAMMING MODE.
Press and hold the P key for 3 seconds.

`COUNTS`
Press the down arrow key.

`PROGRAM`
Press the P key.

`CODE`
Type in 3 2 2 8 using the product keys. Press the P key.

`SYSTEM`
Press the P key.

`APPLIANC`
`GAS`
`ELEC`
`SPC`
SET APPLIANCE MODE.
Use the left and/or right arrow keys to choose GAS, ELECTRIC or SPECIAL. Press the P key.

`LANGUAGE`
`ENGLISH`
`OTHER`
SET LANGUAGE.
LANGUAGE will be displayed. To change, use the left and right arrow keys to choose ENGLISH or OTHER. Press the P key to save and continue.

`CTRLTYPE`
`TEMPCTRL`
`TIMECTRL`
SET CONTROL TYPE. Use the left and/or right arrow keys to choose TEMPERATURE or TIME Control. Press the P key.

`TONEVOL`
SET TONE VOLUME. Use the left and/or right arrow keys to choose 1, 2, 3, 4 or NONE. Press the P key.

`TEMPUNIT`
`F`
`C`
SET TEMPERATURE SCALE. Use the left and/or right arrow keys to choose Fahrenheit (F) or Celsius (C). Press the P key.

`PREHEAT`
`HIGH`
`LOW`
SET PREHEAT MODE. Use the left and/or right arrow keys to choose HIGH or LOW. Press the P key.
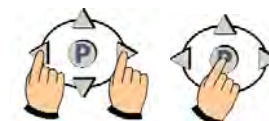
`SETBTIME`
`XX:XX`
PROGRAM SET BACK TIME. Actual set time will be displayed. To change, press toggle clear to change the time to zero. Type in a new time using the product keys. Press the P key.
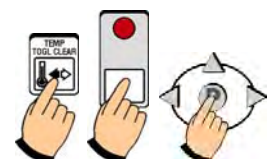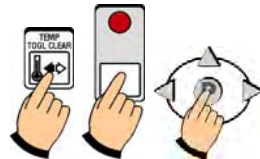
System Programming
CONTINUED

SETBTEMP

XXXF

PROGRAM SETBACK TEMPERATURE. Actual set temperature will be displayed. To change, press toggle clear to change the temperature to zero. Type in a new temperature using the product keys. Press the P key.
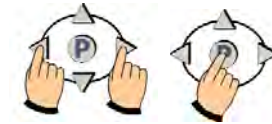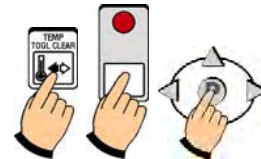
CNTTYPE

PCS

LBS

SET COUNT TYPE. Use the left and/or right arrow keys to choose PCS (PIECES) or LBS (POUNDS). Press the P key.

FILTRCNT

X

SET GLOBAL FILTER COUNT. Actual filter count will be shown (0-999), based on pieces or pounds. To change, press toggle clear to change the count to zero. Type in a new filter count using the product keys. Press the P key.

DISPCNT

X

SET DISPOSAL COUNT. (Enter maximum number of pieces or pounds prior to prompt for disposal.) To change, press toggle clear to change the count to zero. Type in a new disposal count using the product keys. Press the P key.
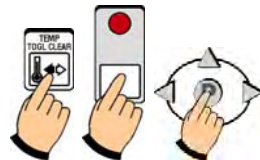
FLTRTIME

XX:XX

SET POLISH OIL TIME. Previously set time will be displayed. To change, press toggle clear to change the time to zero. Type in a new time using the product keys. Press the P key.
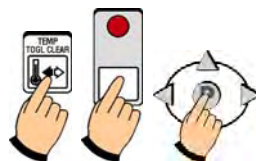
FILTER

X

FILTERING MODE. Previously set filter mode will be displayed. Use the left and/or right arrow keys to toggle choices. Press the P key.

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FORCE

When *FORCE* is displayed, the controller will not allow you to start any timing cycles.
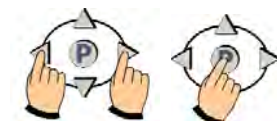
PROMPT

When *PROMPT* is displayed, the controller will allow normal operation of fryer until the ENTER function key is pressed.
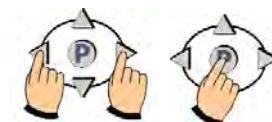
FC/DAY

X

SET NUMBER OF FILTERS PER DAY. Use the left and/or right arrow keys to choose 0, 1, 2 or NONE. Press the P key.
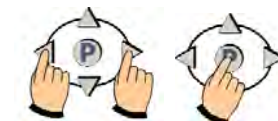
FC/TIME

XX:XX

SET FILTER COUNT TIME PROMPT. Use the left and/or right arrow keys to set time elapsed since last filter prompt (1-12 hours in 1 hour increments). Press the P key.

FLTDELAY

XX:XX

FILTER DELAY. Use the left and right arrow keys to set :00-4:00 hours. Press the P key.

24/7 Tech Support:
1-800-243-9271

System Programming

CONTINUED

`COOKUNIT`
`MM:SS`
`HH:MM`

SET COOK UNIT. Use the left and/or right arrow keys to choose Minutes/Seconds or Hours/Minutes. Press the P key.
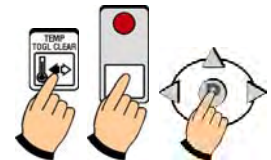
`HOLDUNIT`
`MM:SS`
`HH:MM`

SET HOLD UNIT. Use the left and/or right arrow keys to choose Minutes/Seconds or Hours/Minutes. Press the P key.

`INST ON`
`XX:XX`

SET INSTANT ON TIME. To change, press toggle clear to change the time to zero. Type in a new time using the product keys (0-99:99). Press the P key.

`SYSTEM`

EXIT SYSTEM PRO-GRAMMING MODE. Press the up arrow key.

`EXIT`

Press the P key.

`READY`

You have now EXITED System Programming Mode and can operate the controller.

Offset Programming

SYSTEM 3228 STORE MANAGER

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Offset Temperature can be set from 20 to -20F (-6.6 to -28.8C).

ENTER OFFSET PRO-GRAMMING MODE. Press and hold the P key for 3 seconds.

3 SEC

`COUNTS`

Press the down arrow key.

`PROGRAM`

Press the P key.

`CODE`

Type in 3 2 2 8 using the product keys. Press the P key.

`SYSTEM`

Press the down arrow key UNTIL Offset is displayed.
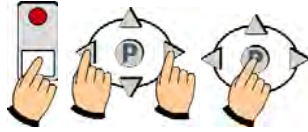
`OFFSET`

Press the P key.

Offset Programming
CONTINUED

XXF

Use the product keys to enter a new offset temperature. to change from negative to positive, use the left and right arrow keys. Press the P key.

OFFSET

EXIT OFFSET PROGRAMMING MODE. Press the down arrow key until EXIT appears.
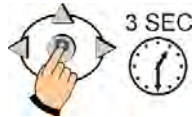
EXIT

Press the P key.

READY

You have now EXITED System Programming Mode and can operate the controller.

Programming Custom Product and Action Alarm Names to the Library

SYSTEM 3228 STORE MANAGER

ENTER LIBRARY PROGRAMMING MODE. Press and hold the P key for 3 seconds.

3 SEC

COUNTS
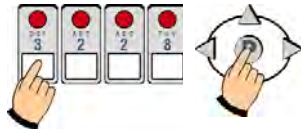
Press the down arrow key.

PROGRAM

Press the P key.

CODE

Type in 3 2 2 8 using the product keys. Press the P key.

SYSTEM

Press the down arrow key to select either PRODLIBR OR ALRMLIBR.
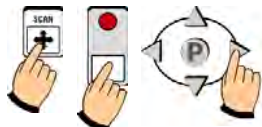
PRODLIBR
ALRMLIBR

Choose either PRODLIBR (Product Library) or ALRMLIBR (Action Alarm Library) by pressing the P key.

-

A flashing dash will be displayed. Press the SCAN key and use the product keys to spell a new word. Press the right arrow key to advance to the next character position.

AB

Continue spelling the word. When done, press the P key.

ADD

TO SAVE WORD, press P again. Skip to Exit Library Programming.

TO CANCEL OR MODIFY, see next step.

Programming Custom Product and Action Alarm Names to the Library
CONTINUED

`ADD`

`CANCEL`

`MODIFY`

TO CANCEL OR MODIFY WORD, press the left or right arrow keys to select CANCEL or MODIFY.

IF YOU CHOOSE CANCEL:

`CANCEL`

Press the P key to EXIT and cancel the word.

IF YOU CHOOSE MODIFY:

`MODIFY`

Press the SCAN key to go back and modify the word.

`PRODLIBR`

`ALRMLIBR`

EXIT LIBRARY PROGRAMMING. Press the up or down arrow keys until display reads EXIT.

`EXIT`

Press the P key.

`READY`

You have now EXITED System Programming Mode and can operate the controller.

Troubleshooting

PROBLEM	CAUSE	SOLUTION
No Power	Circuit breaker OFF	Check and reset.
	Appliance not plugged in	Plug in cord.
	Defective 24VAC transformer	Replace transformer. Replace controller.
No Sound	Inoperable speaker	Replace controller.
Button Problem	Frozen key	Unplug controller. Hold down the TOGGLE/CLEAR key as you plug controller back in.
	Inoperable key	Replace controller.
PROBE is Displayed	Defective temperature probe	Replace temperature probe
	Probe not plugged in	Plug in probe.
Reading Wrong Temperature	Defective temperature probe	Replace temperature probe.
Not Heating	Defective element, relay, contactor or gas valve	Replace defective part.
	Defective controller	Replace controller.

Parts & Accessories

DESCRIPTION	(FAST.) PART NUMBER
Sheet Metal Bezel	214-50291
Slotted Round Head Screw, Black, 1/4-20 x 3/4"	150-10202
Tinnerman Spring Nut 1/4-20	150-11025

24/7 Tech Support:
1-800-243-9271

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Meridian

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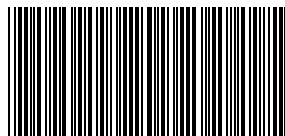Fax: +44-0 1268-544500

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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 EST. Call us toll-free at **1-800-FASTRON** (800-327-8766) if you're in the US, Canada or the Caribbean, or at 203-378-6860 if you're out-side 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 EST, by going to 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) exchang-ing 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 mate-rial 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 war-ranty, 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 war-ranty, 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.

Warranty

FAST provides a limited one-year warranty (optional two-year and life-time) for its products. Warranty replacement units are available. A copy of the exact provisions of this warranty and the other terms and conditions of sale are available upon request.

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

Specifications subject to change without notice.