



## SERIES 6200

# INSTALLATION & SPECIFICATION GUIDE

ITEM NO: D6200-7010  
REVISION DATE: 08/10



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D6200-7010



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## Limited Warranty Agreement

Your Microframe System is warranted against failure due to defects in workmanship or material for a period of one (1) year from the date of purchase. Microframe Corporation will repair or replace any defective unit. Obvious abuse or mishandling of the unit is NOT covered by this warranty.

## Merchandise Return

If your Unit does not work satisfactorily, please give us a call. We may be able to clear up the problem by phone. If it becomes necessary to return your Unit to the factory, please observe the following.

1. Place Unit in a sturdy box with sufficient packing material.
2. If requested, include the power adaptor. It is not necessary to return the cable and connectors unless they are the problem.
3. Return the system insured and prepaid since we are not responsible for shipping damages and losses on returned Units.

## Warranty Service

For warranty service, please contact Microframe at 1-800-635-3811. A technician will gladly assist you.

## Assistance

For any product assistance or maintenance help, contact Microframe by either calling 1-800-635-3811 or emailing us at [support@microframecorp.com](mailto:support@microframecorp.com).

## Safety

Do not install substitute parts or perform any modification to the product without first contacting Microframe.

## Warning

All power adaptors, line cords, and electrical equipment should be kept out of the reach of children and away from water. (If you are installing cable in an air plenum area, such as a drop ceiling used for air return, you must use plenum-rated cable. The cable supplied from Microframe is rated CL2 and is approved for installation everywhere indoors except plenum areas.)

## Life Support Policy

**Microframe's products are not authorized for use as components in life support devices or systems without the express written approval of the president of Microframe Corporation.** As used herein:

1. Life support devices or systems are defined as systems which support or sustain life, and whose failure to perform when properly used in accordance with instructions for use provided in the labeling, can be reasonably expected to result in a significant injury to the user or any one depending on the system.

2. A critical component is any component of a life support device or system whose failure to perform can be reasonably expected to cause the failure of the life support device or system, or to affect its safety or effectiveness.

## Disclaimer

We are constantly striving to improve our products. Due to this, specifications are subject to change without notice.

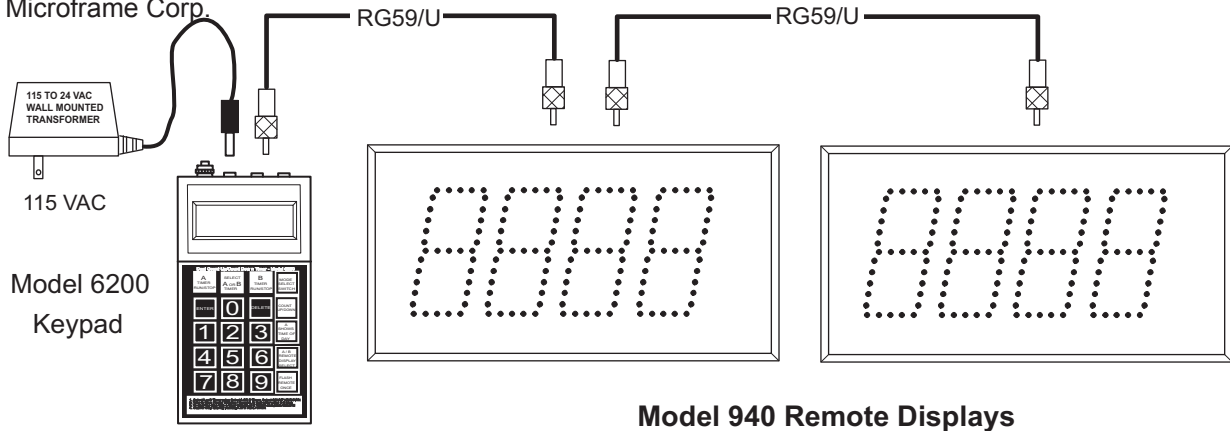
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# TIMER CONNECTION DIAGRAM

## Using RG59/U Cable

The Timer System is very easy to install if connected as shown using cable that is furnished, pre-cut and assembled by Microframe Corp.

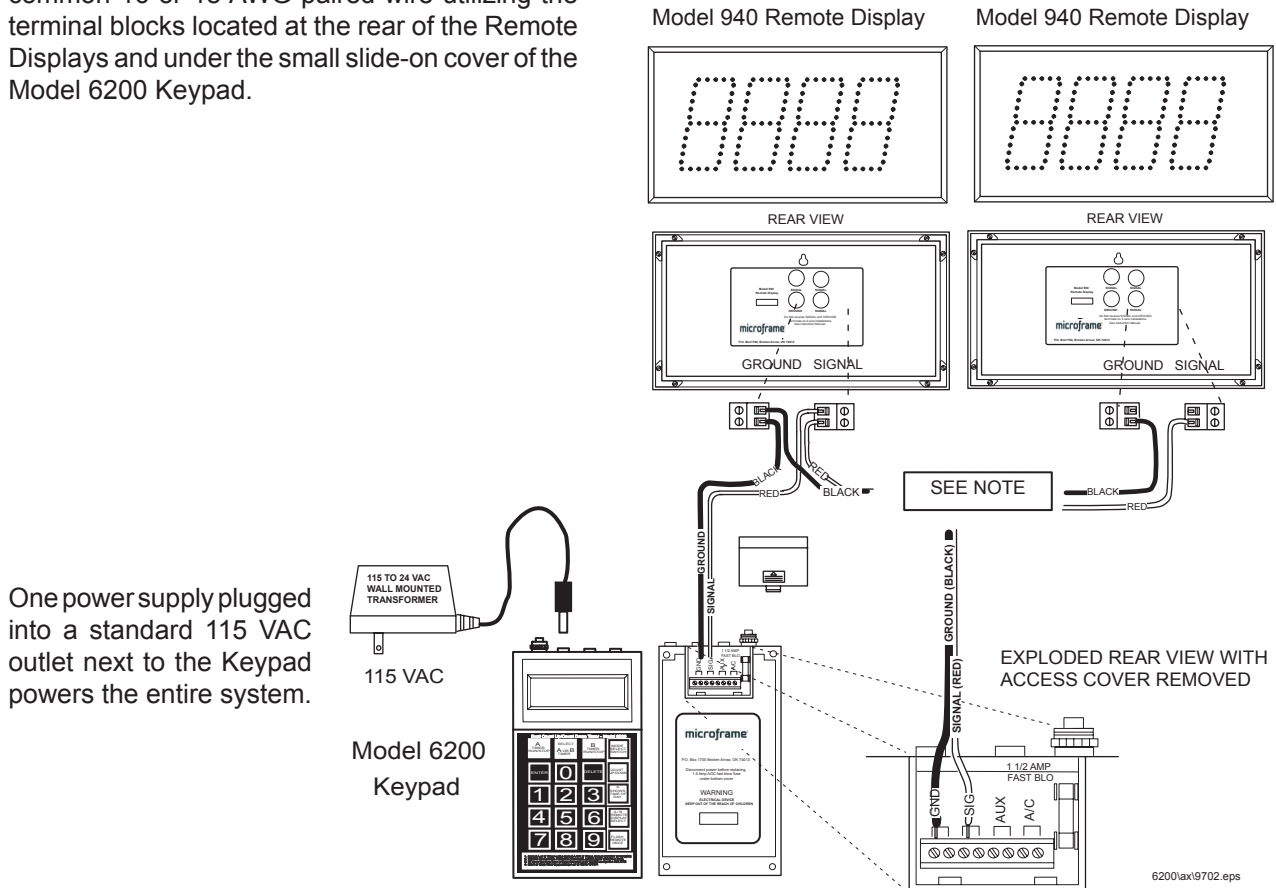


Model 940 Remote Displays

6200lax19701.eps

## Using 16 or 18 AWG Paired Wire

The Timer System may also be connected with common 16 or 18 AWG paired wire utilizing the terminal blocks located at the rear of the Remote Displays and under the small slide-on cover of the Model 6200 Keypad.



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**NOTE:** THE MODEL 920 **SIGNAL** AND **GROUND** CONNECTIONS ARE REVERSED FROM THE MODELS 930 AND 940.

# DETAILED KEYPAD CONNECTION

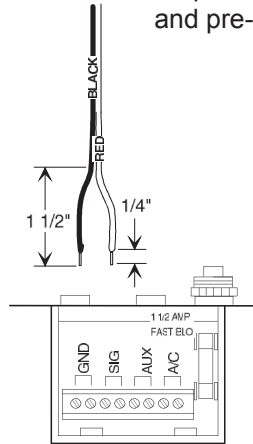
## STEP 1:

Remove slide-on cover.

## STEP 2:

Remove 1.5" of jacket from cable and separate wires.

Strip 1/4" of insulation from each wire and pre-form wires as shown.



## STEP 3:

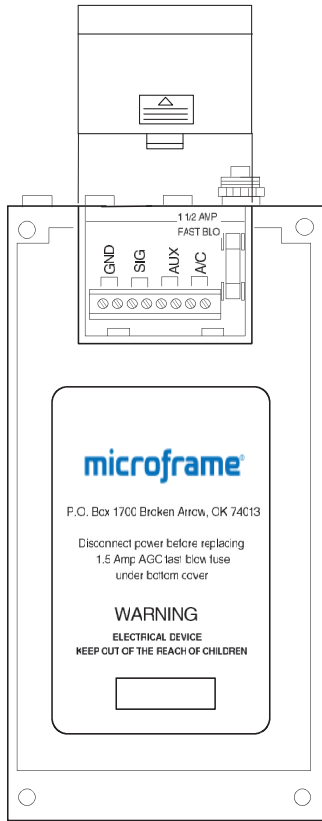
Insert Black Wire in one of the terminals marked GND.

Insert Red Wire in one of the terminals marked SIG.

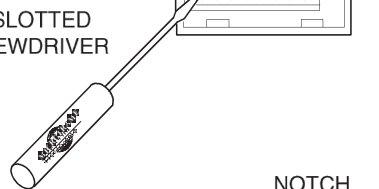
Tighten terminal screws using a 1/8" Slotted Screwdriver.

## STEP 4 ( If required ):

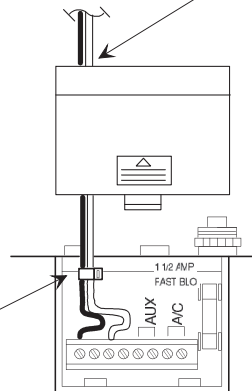
If a second set of wires are required at the Keypad, repeat Step 3 being careful not to reverse the SIG and GND connections.



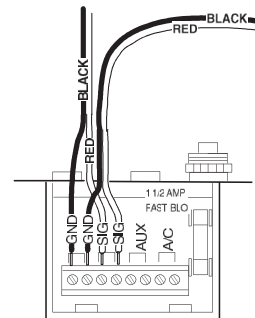
1/8" SLOTTED SCREWDRIVER



NOTCH



Ty-Wrap



904\axl9703.DRW

## STEP 5:

Install slide-on cover being careful to first form wires so the Ty-wrap is inside the case as shown. The slide-on cover has a notch for the wires to fit through.

## MAXIMUM CABLE LENGTH CHART

The following chart shows the maximum number of remote displays that can be installed per cable length indicated. The cable length can be increased by simply putting fewer Remote Displays on EACH CABLE connected to the Model 9010 Keypad. For example, when using 18 AWG wire, you can install a maximum of seven Model 920 (2-digit) Remote Displays up to 800 feet from the Keypad on a single cable. However, if greater distance is required, simply use 16 AWG wire from the Keypad. You can now install seven Model 920 Remote Displays up to 1,300 feet from the Keypad. Distances cited are for a keypad with a 1.25A adapter.

# of Displays	Maximum Cable Distance (feet) for a 1.25A Adapter					
	Model 940		Model 960		Model 9620	
	18 AWG	16 AWG	18 AWG	16 AWG	18 AWG	16 AWG
1	2000	2000	2000	2000	2000	2000
2	1500	2000	800	1300	700	1100
3	800	1300	500	700	300	500
4	600	900	300	400	200	400
5	400	600	100	200	NA	100
6	300	400	NA	100		
7	200	300				
8	100	200				
9	NA	100				
10						
11						
12						

Note: The TOTAL CABLE LENGTH (sum of length of all cables) should not exceed 10,000 feet.

# 1 INSTALLATION PROCEDURES

## 1.1 INTRODUCTION

Save yourself some work - review Section 1 before starting installation.

This Keypad is configured to work with 4-digit displays. For 6-digit displays change the option "DispSize" to 6-digits. See Option 1.3 in Section 3, "Keypad Options".

## 1.1 PRE-INSTALLATION

We recommend testing the system before installation. Connect the keypads and displays together in one room. [Short RCA cables will make setup easier.] Once you are satisfied that the system is working, proceed with your cable runs and equipment mounting.

## 1.2 CABLE INSTALLATION

A single cable carries both power and signal from the Keypad to Remote Displays. RCA cable may be used, but most installers find it easier to work with 2-conductor 18AWG wire. Use 16AWG wire to improve the maximum distance. Unshielded cable is acceptable. CAT 5/6 cable is not recommended, as the small wires tend to break at the Keypad. For aesthetic reasons, the installer will want to hide the cable to the displays. This can be accomplished by punching holes in the wall directly behind the displays. To support additional displays or longer cable runs than the Keypad can handle, use Booster Amp A0160.

## 1.3 KEYPAD INSTALLATION

The Keypad is typically wall-mounted at eye level. However, it may also be placed on a desk.

## 1.4 KEYPAD CONNECTION

**Unplug Keypad before continuing.** Slide off the back cover of the Keypad and connect the 2-conductor wire. Connect the black wire to GND and the red wire to SIG. There are two terminals for both GND and SIG, allowing for two sets of wires to be connected.

**CAUTION:** be careful not to connect to the AUX or AC terminals. The AC terminals are used as an alternate connection point for power. This is only used with power adapters that have bare wires instead of a plug.

Once the wires are firmly connected, slide the protective cover back on and place the Keypad back into the holder.

## 1.5 DISPLAY INSTALLATION

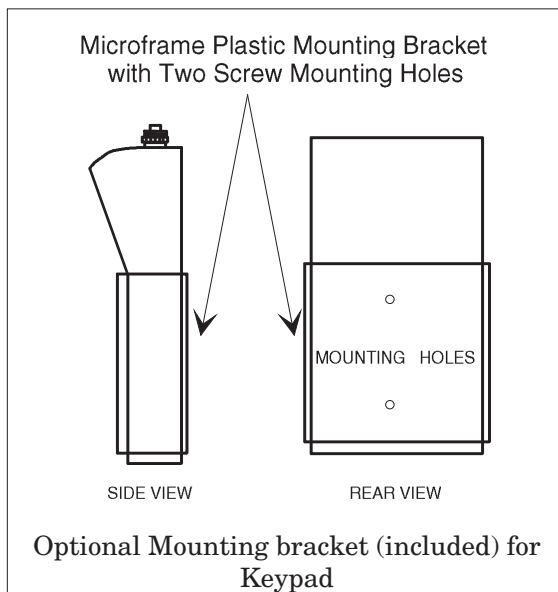
The Remote Display will have optimum visibility when mounted vertically within three to four feet of eye level. This will keep the Display in the proper field of view for the observer. To hang a display on the wall, place an anchor screw into the wall, leaving the screw-head exposed. Line up the keyhole on the back of the display with the screw. Hang the display from the screw. The "Remote Display Mounting Template" provides a guide to line up the mounting screw(s).

## 1.6 DISPLAY CONNECTION

Wire is fed from the wall through the cutouts on the back of the display. Connect the black wire to GND and the red wire to SIG. The additional terminals allow a parallel set of wires to carry power to the next display. Once the wires are firmly connected, hang the display back on the mounting screw(s).

## 1.7 TESTING YOUR SYSTEM

Once the system is wired together, plug in the Keypad and turn it on. If the Keypad shows "SHORT", then there is a short in the wiring. Turn off the Keypad and check the wiring. Otherwise, start Timer A and verify that the Remote Displays are also counting. See the "Troubleshooting Chart" at the end of this manual for additional assistance.

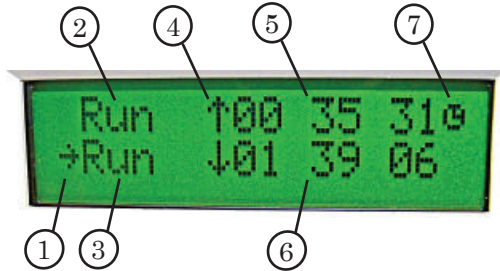


## 2 KEYPAD OPERATION

### 2.1 INTRODUCTION

The Model 6200 Keypad has its own built-in, easy-to-read display so that you can see what numbers are being entered, as well as what time is currently being shown on the remote display(s).

### 2.2 LCD DISPLAY



- (1) Line Edited
- (2) Run Status
- (3) Error Message (replaces Run Msg)
- (4) Timer Direction
- (5) Timer A
- (6) Timer B
- (7) Timer displayed

### 2.3 QUICK START

Connect power and turn the keypad on.

Select the timer you wish to set using the "SELECT A OR B TIMER" button. The arrow (1) will indicate which timer is being edited. Type in the desired time. The new time is automatically entered after six digits are typed. For shorter entries, press "ENTER". To abort an entry press "DELETE".

Select which timer you wish to show on the Remote display using the "A/B REMOTE DISPLAY SELECT" button. A clock symbol (7) will appear next to the timer being displayed.

Start the desired timer by pressing "A TIMER RUN/STOP" or "B TIMER RUN/STOP".

### 2.4 Keypad Operation

This section defines the operation of each keypad button.

"A TIMER RUN/STOP" - Starts or stops the timer on the top line. Run status is indicated by (2).

"SELECT A OR B TIMER" - Selects which line the user is editing. Line edited is indicated by the arrow (1) on the left side of the screen.

"B TIMER RUN/STOP" - Starts or stops the timer on the bottom line. Run status is indicated by (2).

"MODE SELECT SWITCH" - Allows quick access to commonly used options.

"ENTER" - Enters a short time entry. i.e. "400" -> "00:04:00".

"DELETE" - During time entry, acts as cancel.

For a count up timer, resets to 0. For a count down timer, resets to the reload time.

"COUNT UP/DOWN" - Sets the timer direction to count up or down. Timer direction is indicated by an up or down arrow (4).

"ASHOWS TIME OF DAY" - Alternates between Timer A and Time-of-Day (TOD). When Time-of-Day is displayed, "Time" will be shown at (2).

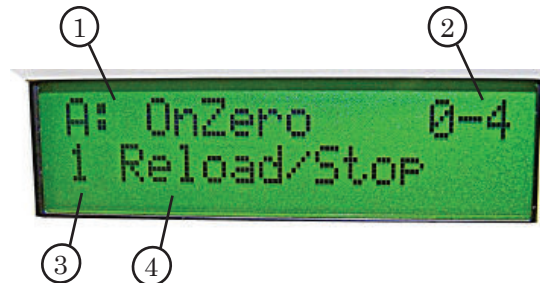
"A/B REMOTE DISPLAY SELECT" - Selects whether Timer A (top line) or Timer B (bottom line) is displayed on the remote display. A clock symbol (7) will appear next to the timer being displayed.

"FLASH REMOTE ONCE" - Flashes the displayed timer (7) once on both the LCD and the Remote Display. Time-of-Day cannot be flashed.

"0" to "9" - Used to edit the selected timer (1) at any time. Also allows editing the Time-of-Day when it is displayed.

### 2.5 MODE OPTIONS

Commonly used options can be set here. Enter this mode by pressing the "MODE SELECT SWITCH". Advance to the next option by pressing the "MODE" or "ENTER" button. If an error is made during an entry, press "DELETE" to revert to the saved setting.



- (1) Option Name
- (2) Value Range
- (3) Selected Value
- (4) Description of Selected Value

#### A: OnZero

0-4 Stop/Reload/Start/Count Up; Default 1

The action to take when Timer A counts down to zero.

0 Stop – Stop at zero.

1 Reload/Stop – Set Timer A to reload time.

2 Reload/Start – Set Timer A to reload time and start counting down.

3 Count Up – Change direction and start counting up from zero.

4 Flash Zero – Stop at zero and flash display until acknowledged. Flash can be cancelled by pressing "DELETE" or setting a new time.

## 2 KEYPAD OPERATION CON'T

### A starts B

*0-1 Disabled/Enabled; Default 1*

Timer A can automatically start Timer B when it counts down to zero. The Remote Display is also set to show Timer B. This option can be used to set up cycling between the two timers.

*0 Disabled* – Do nothing.

*1 Enabled* – Start Timer B. This is the same as pressing "B TIMER RUN/STOP".

### A:Reload Time

*Default 00:45:00*

This is the time loaded into the timer during an OnZero event or when the user presses "DELETE" during a count down.

### A:Chime Time

*Default 00:00:00*

Causes the Remote Display to activate its chime output when Timer A is equal to the set time. A time of 00:00:00 disables this chime. The Remote Display must have the Chime Option installed. Time-of-Day mode uses both Chime Times A and B if TOD is displayed.

### B: OnZero

*0-4 Stop/Reload/Start/Count Up; Default 1*

The action to take when Timer B counts down to zero.

*0 Stop* – Stop at zero.

*1 Reload/Stop* – Set Timer B to reload time.

*2 Reload/Start* – Set Timer B to reload time and start counting down.

*3 Count Up* – Change direction and start counting up from zero.

*4 Flash Zero* – Stop at zero and flash display until acknowledged. Flash can be cancelled by pressing "DELETE" or setting a new time.

### B starts A

*0-1 Disabled/Enabled; Default 1*

Timer B can automatically start Timer A when it counts down to zero. The Remote Display is also set to show Timer A. This option can be used to set up cycling between the two timers.

*0 Disabled* – Do nothing.

*1 Enabled* – Start Timer A. This is the same as pressing "A TIMER RUN/STOP".

### B:Reload Time

*Default 00:45:00*

This is the time loaded into the timer during an OnZero event or when the user presses "DELETE" during a count down.

### B:Chime Time

*Default 00:00:00*

Causes the Remote Display to activate its chime output when Timer B is equal to the set time. A time of 00:00:00 disables this chime. The Remote Display must have the Chime Option installed. Time-of-Day mode uses both Chime Times A and B if TOD is displayed.

## 2.5 ERROR MESSAGES

Error Messages replace the run status (3) for Timer B. While in an error state timers continue to run and the keypad will still respond to user input. Once the problem is corrected, the error will automatically clear in a few seconds. For a description of error codes, please see "EXPLANATION OF ERROR CODES" at the end of this manual.

## 2.6 MULTIPLE OUTPUTS

The Keypad will power multiple Remote Displays (see **Maximum Cable Length Table**).

## 2.8 POWERING OFF THE SYSTEM

It is recommended that you turn the power off using the "ON/OFF" switch on the Keypad when not in use. This will greatly prolong the life of the system.

## 2.9 REPLACING THE FUSE

The Keypad contains a fuse inside the case under the small slide-on cover. To prevent permanent damage, replace with the correct fuse. For standard keypads use a 1.6A (5mmx20mm) fast acting fuse. For keypads with a 2.5A adapter, use a 2.5A (5mmx20mm) fast acting fuse.

**WHEN REPLACING THE FUSE  
BE SURE TO DISCONNECT POWER  
FROM THE AC WALL OUTLET.**

## 2.10 OPTION CONNECTIONS

The Keypad has two optional connections on the 8-pin terminal block located under the small removable cover:

1. **AUX**—Auxiliary connection for use with the extra cost Remote Delete Option.

2. **A/C**—Remote 24 VAC Input used when a adapter other than the wall mounted one supplied with the system is required, such as an attic-mounted adapter installation.

**Note:** Keypads cannot share power adapters.

## 3 KEYPAD OPTIONS

### 3.1 Entering Options Mode

To enter Options Mode, do the following.

- 1) Turn on Keypad.
- 2) During the startup screen, press '0'.
- 3) "System Options" will display, signifying you are in options mode.

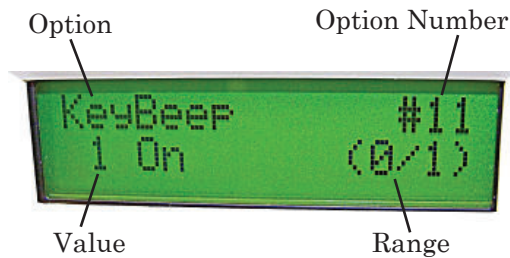
### 3.2 Options Table Summary

Options are organized as follows:

General	#1	
KeyBeep		#11
Chime		#12
DispSize		#13
Fact Reset		#19

### NAVIGATION

Type the two-digit number for the option you wish to set. The current value is shown. Type a new number to change the value. Press [ENTER] to save or [DELETE] to cancel.



### OPTIONS DEFINITIONS

#### 1.1 KeyBeep

*0-1 Off/On; Default 1*

The audible feedback sound can be enabled or disabled.

#### 1.2 Chime

*0.0-9.9 Seconds; Default 0.3*

Sets the remote display chime duration. Not all displays follow this option.

#### 1.3 DispSize

*4,6 Digits; Default 4*

Sets the display size with which the keypad will work.

*4 Digits* – Works with 940 displays.

*6 Digits* – Works with 960 and 9620 displays.

#### 1.9 Factory Reset

*0-1 No/Yes;*

Resets all options to factory defaults.

## 4 DISPLAY OPERATION

### 4.1 POWER

Remote Displays are powered by the Keypad. Thus, when the Keypad is turned off, the Remote Displays are also powered off.

### 4.2 MAXIMUM NUMBER OF DISPLAYS

See **Maximum Cable Length Chart** to determine how many displays the Keypad can support, or call Microframe technical support for assistance.

The Model 160 Booster Amp may be added to power additional displays.

### 4.3 SYSTEM SIGNAL CONNECTION

Refer to **Connection Diagrams** for details.

For 16 or 18 AWG paired wire installations, use the two-conductor terminal block located on the back of the display. Be careful to observe **SIGNAL** and **GROUND** polarity. There is a second set of connectors to use if running another wire to the next Display.

If you are using RCA connectors, then connect the coaxial cable to either "**Signal**" connector on the remote display. To add a second Remote Display, connect one end of the signal cable to the other RCA phono connector on the first Remote Display and the other end to either connector on the next Remote Display.

## EXPLANATION OF ERROR CODES

There are five error conditions that will cause an Error Code to appear on the Model 910 Keypad display. It will be of great assistance in troubleshooting the system if you will note the displayed code when calling for assistance. For technical support call 1-800-635-3811.

ERROR MESSAGE	CAUSE
<b>Short</b>	The cable is shorted between the Keypad and the Display.
<b>StuckHi</b>	The Keypad output is damaged or there is another device on the line holding it high.
<b>NoInts</b>	Master or Slave Keypad is not getting the interrupts it needs to work.
<b>EEfail</b>	Keypad is unable to remember settings.
<b>CommErr</b>	Communication error.

## TROUBLESHOOTING CHART

SYMPTOM	POSSIBLE CAUSE	CURE
Keypad is dark and unresponsive	Keypad is not receiving power.	Check that Keypad is plugged in. Is the AC outlet working? Is the Keypad fuse blown? Is the Keypad power switch on?
Keypad displays <b>SHORT</b>	There is a short across the output of the Keypad.	Does disconnecting the signal cable solve the issue? If so, the problem is in the cable.
Keypad displays <b>StuckHi</b>	Keypad is unable to send data on the line.	Does disconnecting the signal cable solve the issue? If not, the Keypad is damaged and needs service.
Keypad displays <b>NoInts</b>	The wrong power adapter is in use. The Keypad is damaged.	Does the power adapter have an output of 24VAC, 1.2A? If damaged, return Keypad for service.
<b>EEfail</b>	Keypad cannot remember settings.	Keypad is damaged. Return for service.
<b>CommErr</b>	Communication Error.	Verify programming to make sure only one Keypad is a master. Check wiring between Keypads. Check for strong interference next to signal cable.
Keypad works but does not light up or has erratic numbers	Poor signal connection to Remote Display.	Does the display work when connected to the display with a short (i.e. 3 ft) piece of cable? If so, the problem is in the wiring.

**CAUTION:** Always unplug power before connecting/disconnecting the signal cable or changing the fuse.

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E-mail: [support@microframecorp.com](mailto:support@microframecorp.com)



# MODEL 6200 SPECIFICATIONS

## Timer Keypad

### Features

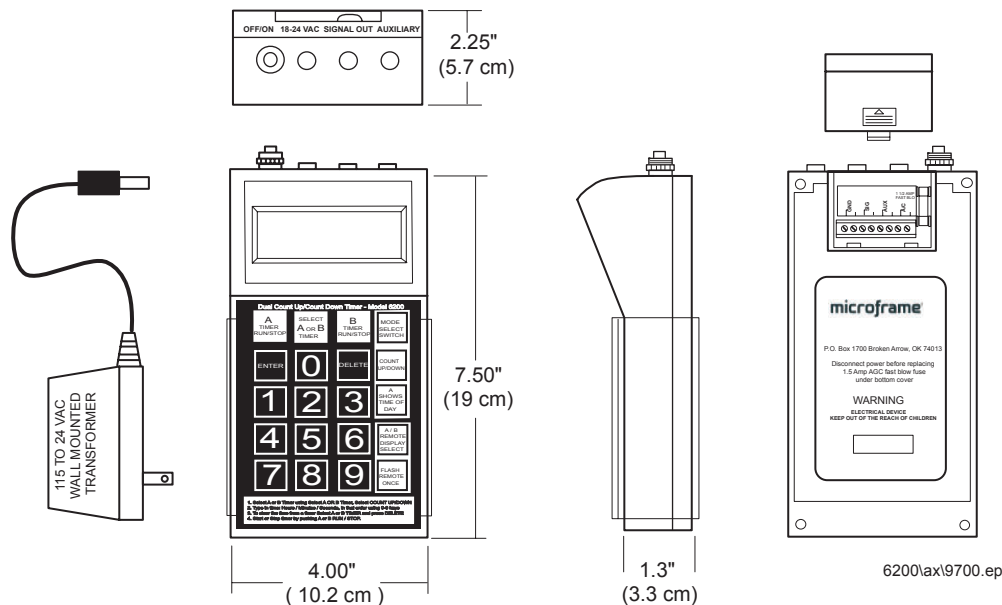
The Model 6200 Keypad is designed to operate with 940, 960, and 9620 Remote Displays. The Keypad has two independent timers, as well as the ability to show the current Time-Of-Day.

### Operation

The selected timer is shown on the Remote Display. To show both timers, use a 9620 (2 line) display. For larger displays, order two 960 displays: a regular 960 display and another 960 with the Display B option.



Microframe® Model 6200 Keypad



### Model 6200 Specifications

Local Keypad Display .....	Backlit LCD screen
Timers.....	Timer A, Timer B, TOD (clock)
Maximum Keypads in System .....	1 keypad (there are no slaves for this product)
Input Power .....	115 VAC into power adapter
Power Adapter.....	24 VAC, 1.2A standard, 2.5A optional
Line Frequency.....	50 or 60 Hz
Fuse Requirements .....	1.6A fast-acting fuse (5mm x 20mm) or 2.5A
Weight .....	0.75 lb (0.4 kg), with transformer 2.25 lb (1.0 kg)

**Sales and Support**  
**1-800-635-3811**

**Microframe® Corporation**  
**P.O. Box 1700**  
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# MODEL 940 SPECS

## Remote Display

### Features

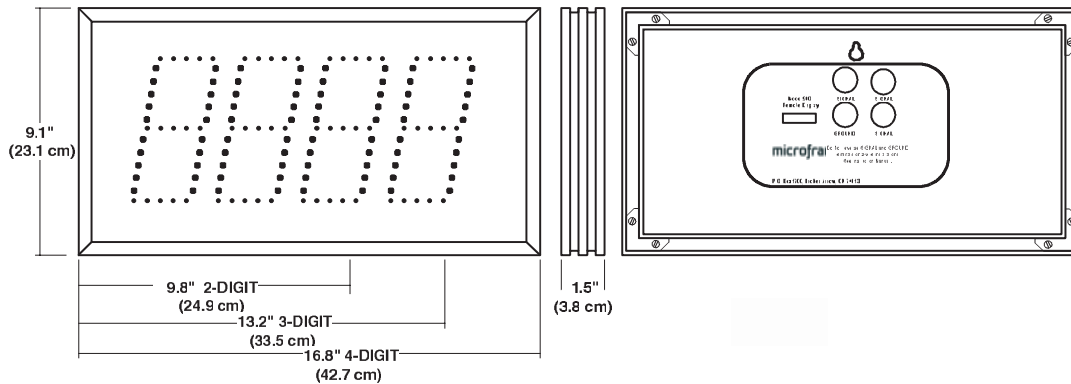
Each Display has 5.5 inch tall digits viewable from up to 125 feet and is encased in an aluminum extruded cabinet.

### Operation

The 940 Remote Display is designed to operate with the Model 910 Keypad or Model 6200 Timer Keypad. The Remote Display receives power and signal from a single cable connected to the Keypad and is turned on or off with the Keypad power switch.



Microframe® Model 940 Display



### Model 940 Specifications

Remote Display .....	Wall mount red LED display
Power Input Requirements .....	Powered by Keypad
Character Height .....	5.5 inches (14 cm)
Character Viewing Distance .....	125 feet in indoor light
Case .....	Aluminum case with Plexiglas faceplate
Weight .....	4-digit, 3.5 lbs (1.6 kg)

**Sales and Support**  
**1-800-635-3811**

Microframe® Corporation  
 P.O. Box 1700  
 Broken Arrow, OK 74013  
[www.microframecorp.com](http://www.microframecorp.com)



# MODEL 960 SPECIFICATIONS

## Remote Display

### Features

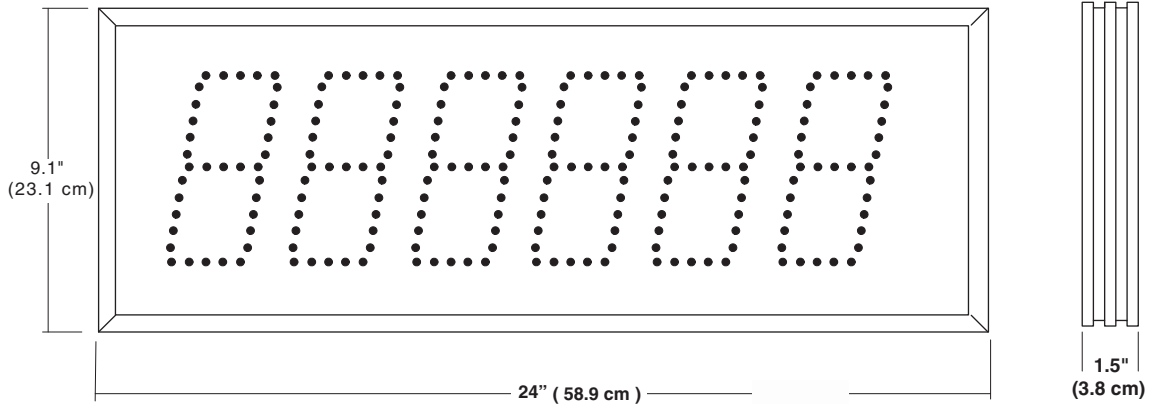
Each Display has 5.5 inch tall digits viewable from up to 125 feet and is encased in an aluminum extruded cabinet.

### Operation

The 960 Remote Display is designed to operate with the Model 910 Keypad or Model 6200 Timer Keypad. The Remote Display receives power and signal from a single cable connected to the Keypad and is turned on or off with the Keypad power switch.



Microframe® Model 960 Display



### Model 960 Specifications

Remote Display .....	Wall mount red LED display
Power Input Requirements .....	Powered by Keypad
Character Height .....	5.5 inches (14 cm)
Character Viewing Distance .....	125 feet in indoor light
Case .....	Aluminum case with Plexiglas faceplate
Weight .....	5.25 lbs (2.4 kg)

**Sales and Support**  
**1-800-635-3811**

Microframe® Corporation  
 P.O. Box 1700  
 Broken Arrow, OK 74013  
[www.microframecorp.com](http://www.microframecorp.com)



# MODEL 9620 SPECIFICATIONS

## Remote Display

### Features

The Model 9620 Remote Display is designed to display up to six 2-digit numbers at a time. The Model 9620 Display has 2.5 inch tall digits viewable up to 80 feet and is encased in an aluminum extruded cabinet. Optional ceiling mounts are available in a single, double, or triple cluster for easy mounting in the center of or around the peripheral of a large retail area. Outdoor displays are also available.

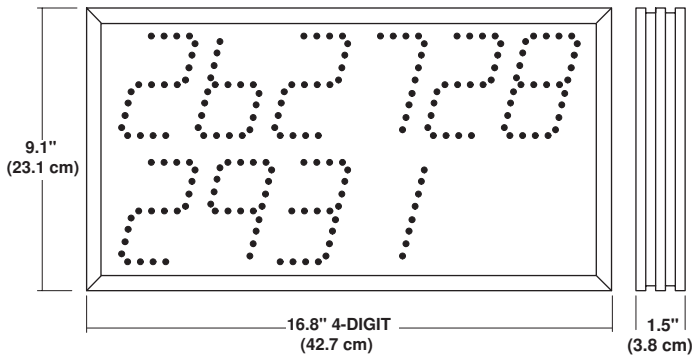


Microframe® Model 9620 Display

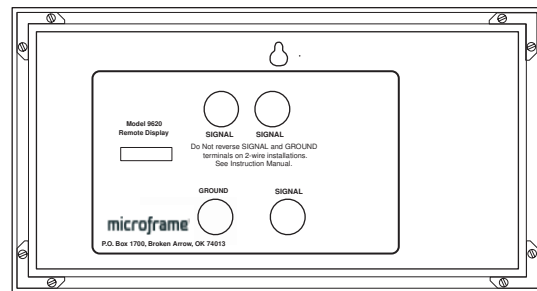
### Operation

The Model 9620 Remote Display is designed to operate with the Microframe Model 9010 Keypad. The signal and power is received from a single cable connected to the Keypad.

Front View



Back View



4600\AX\9700.ai

### Model 9620 Specifications

Remote Display .....	Wall mount red LED display
Power Input Requirements .....	Powered by Keypad
Character Height .....	2.5 inches (6.4 cm)
Character Viewing Distance .....	80 feet in indoor light
Case .....	Aluminum case with Plexiglas faceplate
Weight .....	3.5 lbs (1.6 kg)

**Sales and Support**  
**1-800-635-3811**

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 Broken Arrow, OK 74013  
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# MODEL 941 & 942 SPECS

## Remote Mini Display

### Features

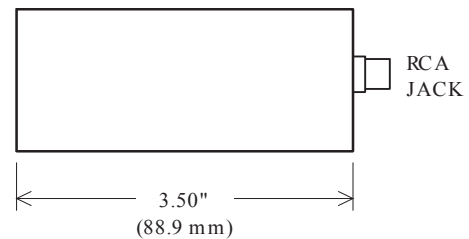
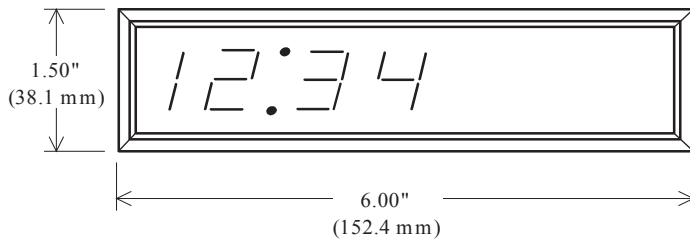
The Model 941 and 942 Mini Displays feature approximately 1 inch tall digits viewable from up to 30 feet. The Model 942 Display is double sided and can be viewed from either side.

### Operation

This Remote Display is designed to operate with the Microframe Model 6200 Timer or Model 910 Keypad to provide a display of data entered into these products. The Remote Display receives its power and signal from a single RCA cable connected to the Keypad and is turned on or off with the Keypad power switch.



Microframe® Model 941 and 942 Displays



### Model 941 and 942 Specifications

Remote Display .....	Red Seven-Segment Display for Desktop
Power Input Requirements .....	Powered by Keypad, RCA only
Character Height .....	0.8 Inch (2.03cm)
Character Viewing Distance .....	30 feet in Indoor Light
Case .....	ABS Plastic with Red Faceplate
Weight .....	1 lb (0.45 kg)

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