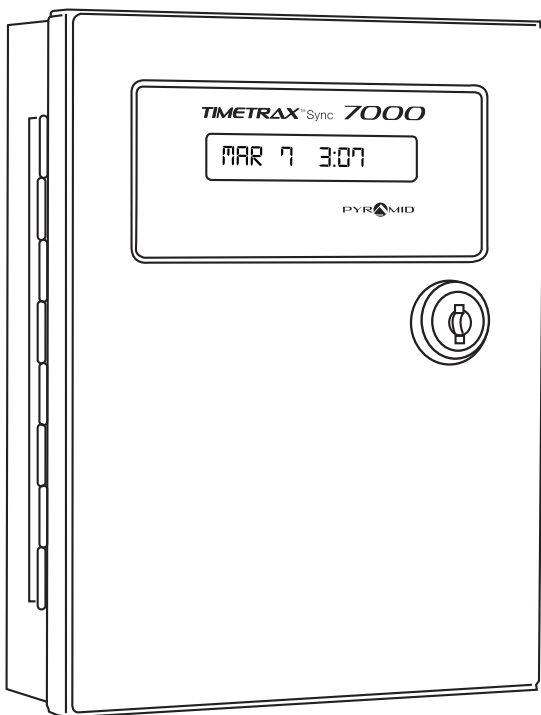




**TIMETRAX™ Sync**  
**7000/7000**BDL110

Master Clock Controller

# User Guide



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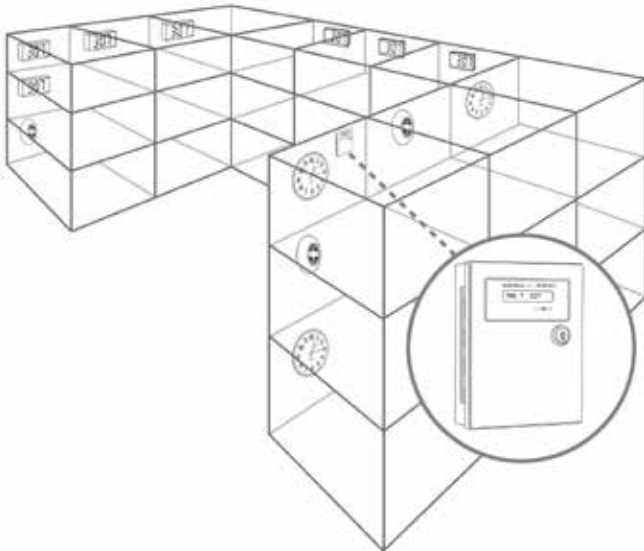
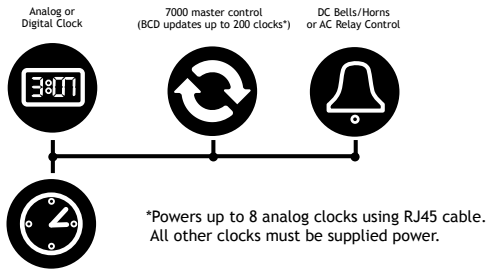
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## OVERVIEW

Thank you for choosing a TimeTrax Sync™ 7000/7000BDL110 Master Clock System. The TimeTrax Sync™ 7000/7000BDL110 synchronizes up to 200 TimeTrax Sync™ Analog Clocks (part #5200) and/or Digital Clocks (part #DIG-4B, DIG-6B 41357G, 61357G). The system can provide power to eight TimeTrax Sync™ Analog Clocks (part #5200) using RJ45 connector. Digital Clocks need to have their own 100-240V AC 50/60Hz power supplied.

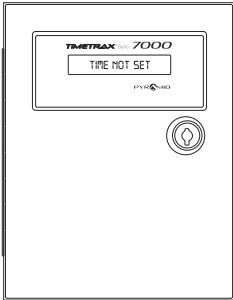
The TimeTrax Sync™ 7000 integrates with 24V DC bells or horns and is able to operate a bell/horn schedule up to 300 events.

The TimeTrax Sync™ 7000BDL110 includes a Relay SPDT contact for 110V AC bells and horns. The 7000BDL110 provides contacts to bells and horns up to a total of 10amps @ 125V AC. Please refer to page 15 for a complete list of bell and horns.

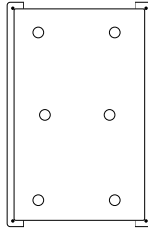


**7000/7000BDL110 MASTER CLOCK CONTROLLER : FEATURES**

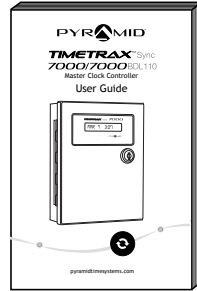
	<b>7000</b>	<b>7000BDL110</b>
Synchronization Capacity	200 TimeTrax Sync™ Analog and/or Digital Clocks	200 TimeTrax Sync™ Analog and/or Digital Clocks
Synchronization Distance	Up to 300 feet	Up to 300 feet
Analog Clock Power	Up to 8 Analog Clocks (part #5200)	Up to 8 Analog Clocks (part #5200)
Bell/Horn Interface	24V DC Bells and Horns	110V AC Bells and Horns
Bell Scheduling	Up to 300 Events	Up to 300 Events
Bell & Horn Power	Up to 35 bells (part #41361 & 41392) or 800 milliamps (mA) per event Up to 20 horns (part #41362) or 800 milliamps (mA) per event	Contact SPDT 10amps total @ 125V AC, 7A @ 250V AC Bells #41397R & #41398G Horns #41363
Display	Date & Time (AM/PM or Military)	Date & Time (AM/PM or Military)
Automatic Time Adjustment	Short months, Leap Year & Daylight Saving Time	Short months, Leap Year & Daylight Saving Time
Tamper-Proof Security Lock	Yes	Yes
Warranty	1-Year manufacturer's limited warranty	1-Year manufacturer's limited warranty



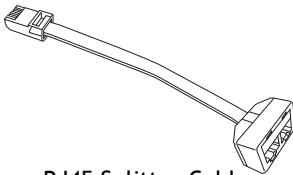
TimeTrax Sync™ 7000  
Master Clock Controller



110 Relay  
(7000BDL110 ONLY)

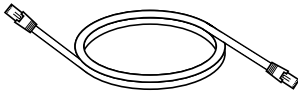
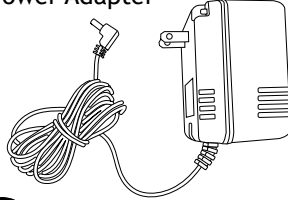


7000/7000BDL110  
User Guide



RJ45 Splitter Cable

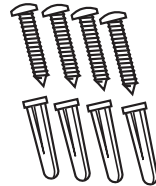
Power Adapter



RJ45 Cable



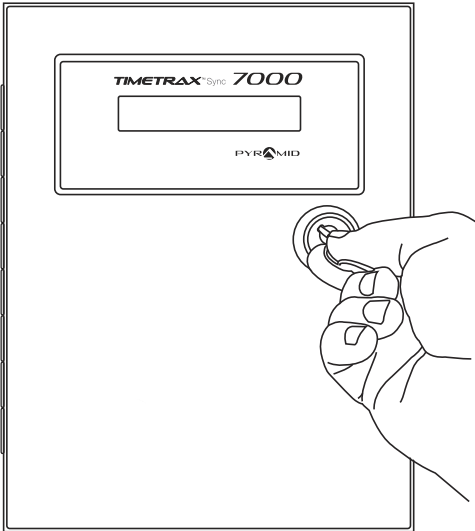
Security  
Keys (2)



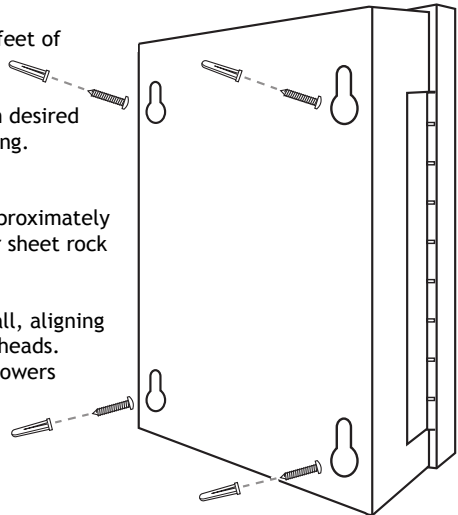
Mounting Screws (4)  
Wall Anchors (4)

## WALL MOUNTING

- ① Use key to unlock and open front cover.

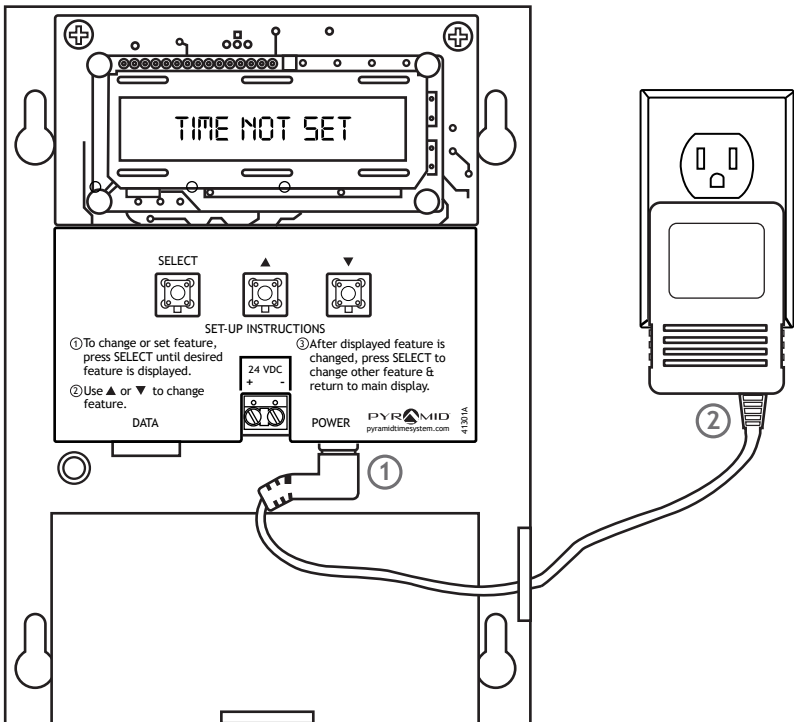


- ② Select a location for mounting. Power outlet should be within 5 feet of mounting location.
- ③ With door, open, hold the case in desired location and mark holes for drilling. Drill holes for mounting.
- ④ Install screws in wall, leaving approximately 3/16 inch of screws exposed. For sheet rock walls, use plastic anchors.
- ⑤ Hang TimeTrax Sync™ 7000 on wall, aligning keyholes on the rear with screw heads. Press downward on case until it lowers onto screws.



INSTALLATION / 7000

- ① Route the power supply through cable channel located on right side or bottom of the 7000 case. Connect power supply into power port labeled POWER.
- ② Plug power supply into standard electrical wall outlet.



PROGRAMMING

The diagram illustrates the programming interface. At the top, three buttons are shown: a square button labeled 'SELECT' with a square icon, a square button with an upward-pointing triangle icon, and a square button with a downward-pointing triangle icon. Below these buttons is the text 'SET-UP INSTRUCTIONS'. To the left of the instructions are the labels 'DATA' and 'POWER'. In the center, a display shows '24 VDC' with a '+' sign on the left and a '-' sign on the right. Below the display is a small icon of a power switch. To the right of the display, the text 'PYRAMID' is written above 'pyramidtimesystem.com'. On the far right, the number '41301A' is printed vertically.

SELECT

▲ ▼

SET-UP INSTRUCTIONS

① To change or set feature, press SELECT until desired feature is displayed.

② Use ▲ or ▼ to change feature.

③ After displayed feature is changed, press SELECT to change other feature & return to main display.

DATA

24 VDC  
+ -

POWER

PYRAMID  
pyramidtimesystem.com

41301A

- ① Locate programming buttons labeled SELECT, (▲) (UP) & (▼) (DOWN).
- ② Press SELECT until desired feature is displayed (see chart on next page).
- ③ Press (▲) (UP) or (▼) (DOWN) to scroll through feature options.
- ④ Press SELECT to save option setting and move onto next feature.

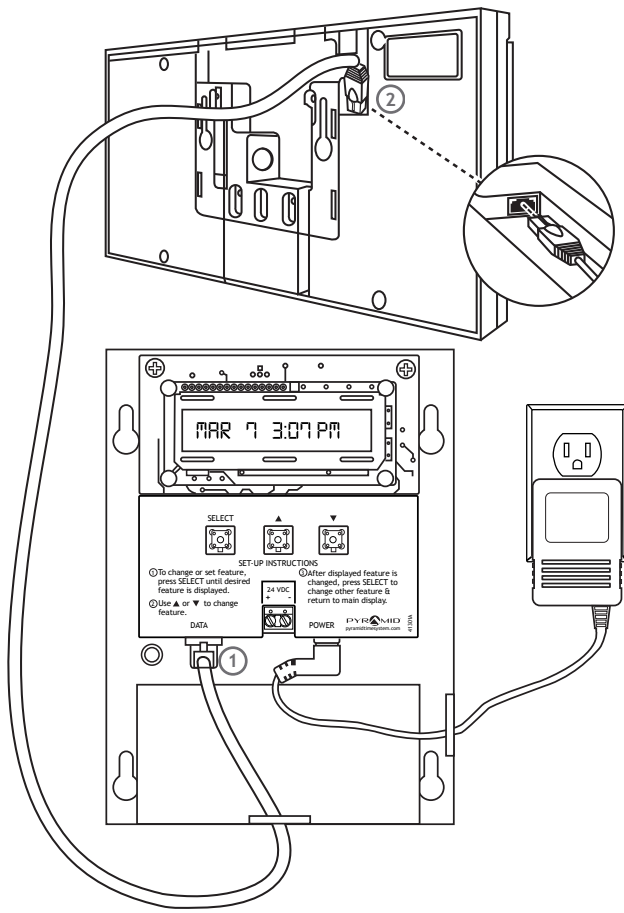


7000 MASTER CLOCK CONTROLLER : PROGRAMMING

FEATURE (SELECT)	DISPLAY	DEFAULT SETTING	OPTIONS (SCROLL ▲▼)
Schedule Bells	SET EVENT * NO	NO	NO: No event(s) scheduled. YES: Schedule event(s) SET EVENT #1-300 See instruction on p.12.
Date Format	DATE FMT = USA	USA	Use the UP or DOWN key to select USA or EURO (European) display format for time.
Set Year	SET YEAR = 2009	2009	Use the UP or DOWN key to set the current year.
Set Month	SET MONTH = JAN	JAN	Use the UP or DOWN key to set the current month.
Set Day	SET DAY = 1	1	Use the UP or DOWN key to set the current day of month.
Set Daylight Saving Time (DST) Rule	DAYL'T SAV = USA	USA	USA: USA DST: Begins 2nd SUN of MAR, Ends 1st SUN of NOV EURO: European DST: Begins Last SUN of MAR, Ends Last Sun of OCT OTHER: Set a custom DST Rule Choose from LINE or CRYSTAL time base. OFF: No adjustment for DST.
Set Format	DSPLY FMT =	AM/PM	AM/PM: 12 Hour MIL: Military, 24 Hour
Set Hour	SET HOUR = 12PM	12AM	Use the UP or DOWN key to set the current hour of day.
Set Minutes	SET MINUTES = 00	00	Use the UP or DOWN key to set the current minute.

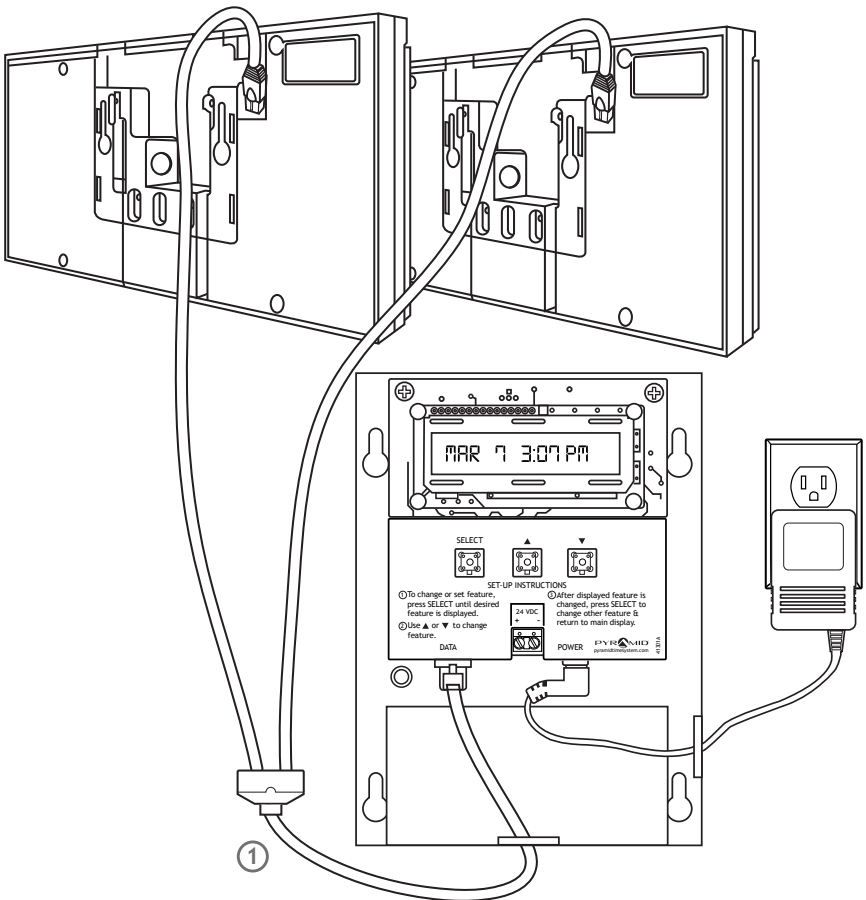
## CLOCK CONNECTION

- ① Using RJ45 BCD Cable, connect one end of the cable to the 7000 port labeled DATA and route cable through cable channel located on the right side or bottom of 7000 case.
- ② Connect the other end of the RJ45 cable to port located on back of Analog or Digital clock.
- ③ Mount and install wall clocks according to instructions included with clock.



## CLOCK CONNECTION

- 1 Use RJ45 Splitter Cable (part # 41270) to add more clocks. Up to 200 clocks may be added to the system, however clocks should be located within 300 feet of 7000 unit to receive the synchronization time data.

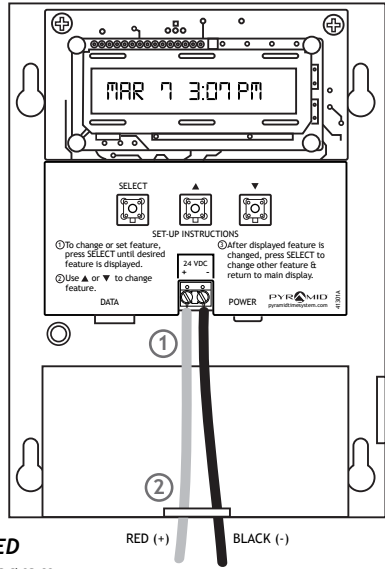


**BELL CONNECTION & SCHEDULE**

**DC BELL CONNECTION**

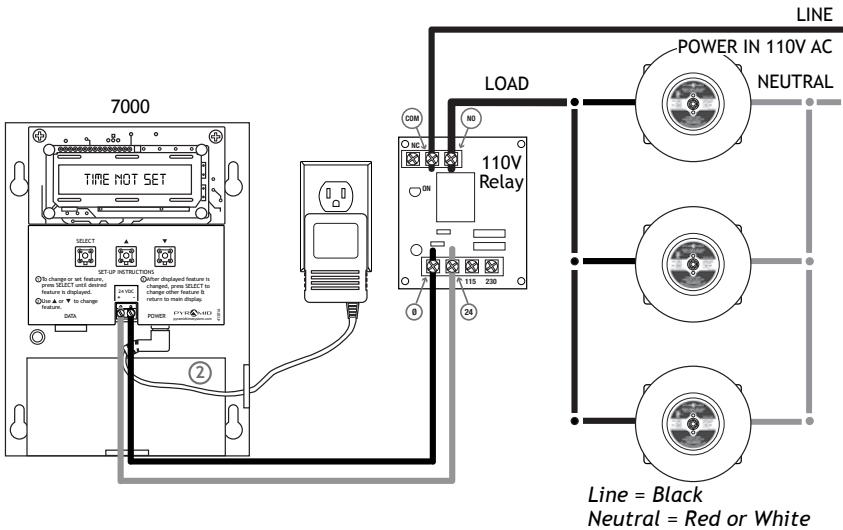
The 7000 will provide power to 24V DC bells or horns, up to 800 milliamps (mA) per event.

- ① Wire 24V DC Bells or Horns to the 7000 terminal labeled 24 VDC using 16-18 gauge wire (part #41449 sold separately)
- ② Route the bell wire through the cable channel located on right side or bottom of 7000 case. A total of 35 bells or 20 Horns can be connected to the circuit if using Pyramid bells (part #41361, 41392) and horns (part #41362).
- ③ Use the following table to set a bell/horn schedule. Program up to 300 bell/horn events.



**AC BELL CONNECTION**

**CAUTION: 110V BELL RELAY MUST BE INSTALLED BY A LICENSED ELECTRICIAN.** Please refer to diagram.



Line = Black  
 Neutral = Red or White

**SET EVENT**

**MENU : SET EVENT ▲▼**  
**SCHEDULE AN EVENT (e.g. Sound Bells/Horns)**

FEATURE (SELECT)	DISPLAY	DEFAULT SETTING	OPTIONS (SCROLL ▲▼)
Set Event Schedule	SET EVENT *	NO	Scroll ▲(UP) or ▼(DOWN) to schedule event
Assign the Event a Number (1-300)	SET EVENT * I	1	SET EVENT (e.g.1, 2, 3 ... 300)
Set the Event's Duration	EVENT *	OFF	OFF, .5 SEC, 1-15 SEC (determines length of time buzzer/bell/horn sounds)
Set the Event's Hour	EVENT * HR =	12 AM (AM/PM) 00 (MIL)	EVENT HOUR +/- One Hour 12 HR: 12AM-11PM 24 HR: 00-23
Set the Event's Minute	EVENT * MIN =	00	EVENT MINUTE +/- One Minute (e.g. 00, 17, 59)
Set the Event's Day	EVENT * DAY =	ALL	Monday thru Friday Event: M-F One day event: SUN, MON, TUE, WED, THU, FRI, SAT All week event, SUN-SAT: ALL

**SPECIFICATIONS**

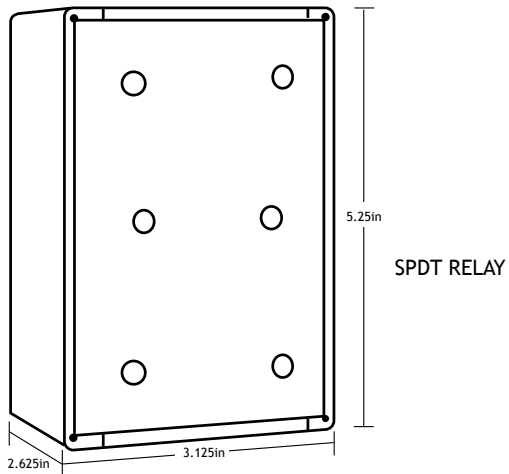
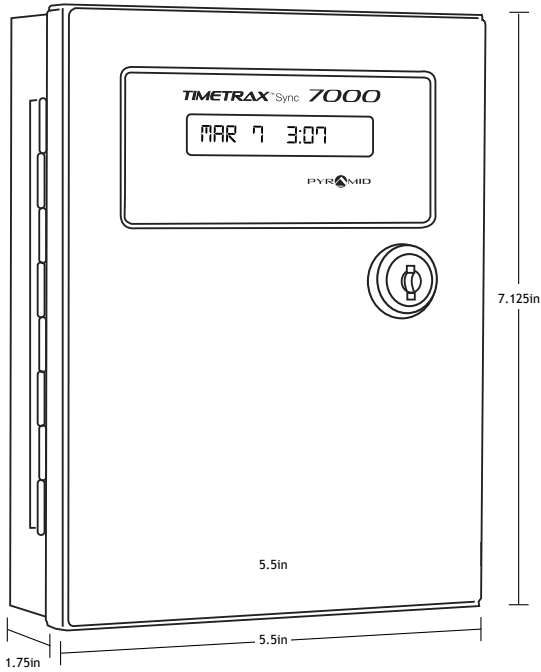
**7000 SPECIFICATIONS**

Time Set	Manual
Power Output	800mA
BCD Time Updates	Up to 200 clocks, 35 bells, 20 horns and powers up to 8 Analog Clocks (Part #5200) using RJ45
Operating Temp	-30° F (-34.44° C) to 130° F (54.44° C)
Display	LCD, date & time
Housing	Textured powder coat surface metal
Color	Black
Mounting	Wall Mount
Warranty	1-Year manufacturer's limited warranty
Dimensions	5.5"W x 7.125"H x 1.75"D (13.9cm x 18.1cm x 4.4cm)
Weight	1.81lbs (.81kg)
Shipping Weight	4.451lbs (2.01kg)

**SPDT CONTACT (10A @125V AC, 7A @250V AC) RELAY SPECIFICATIONS**

Color	Putty
Mounting	Wall Mount
Dimensions	3.125"W x 5.25"H x 2.625"D (7.93cm x 13.33cm x 6.66cm)
Weight	.75lbs (.34gr)
Shipping Weight	1lb (.045gr)

SPECIFICATIONS



ACCESSORIES	
PART #	DESCRIPTION
DIG-4B	4" x 4-digit Red LED Independent Digital Clock
DIG-6B	4" x 6-digit Red LED Independent Digital Clock
41357G	4" x 4-digit Red LED Digital Clock
61357G	4" x 6-digit Red LED Digital Clock
5200	13" Analog Clock 12 Hour Face
41200	Power Adaptor 120V AC/18V AC
41269	RJ45 BCD Cable, 50'
41314	RJ45 BCD Cable, 100'
41270	RJ45 Y-Splitter Cable
41361	6" 24V DC Bell
41392	8" 24V DC Bell
41362	24V DC Horn
41397R	6" 110V AC Bell, red (7000BDL110 ONLY)
41398G	8" 110V AC Bell, grey (7000BDL110 ONLY)
41362	110V AC Horn (7000BDL110 ONLY)
41449	Bell Wire, 100' Spool
41450	Bell Wire, 250' Spool

<sup>1</sup>Powers eight 5200N Analog Clocks.



## WARRANTY

### 1-YEAR LIMITED WARRANTY

Pyramid warrants its Synchronized Clock Systems to the original user against defective material or workmanship for a period of 1 year from date of purchase.

The manufacturer's responsibility under this Warranty is limited to repair or replacement of defective part or parts. Pyramid reserves the right to determine whether parts failed because of defective material, workmanship, or other causes. Failure caused by accident, alteration, misuse or improper packaging of returned unit is not covered by this Warranty. Any repair to equipment other than by Pyramid voids the Warranty. Users in territories other than USA, Canada, South America & Australia should contact the Dealer from whom the unit was purchased. The rights under this Warranty are limited to original user and may not be transferred to subsequent users.

If Customer Support cannot troubleshoot your problem over the phone, we will replace your unit free of charge if it is within warranty period. Please contact Customer Support at **888.479.7264** between the hours of **8am-5pm EST** for details.

## TECHNICAL SUPPORT

Should you need to speak live to one of our representatives, please call toll-free (US/Canada) at **888.479.7264** during regular business hours: **8am-5pm EST, M-F**.

# SIMPLE : SMART<sup>®</sup>



## CONTACT US:

For more information, visit [pyramidthimesystems.com](http://pyramidthimesystems.com) or call our technical support team at **888.479.7264** during regular business hours: **8am-5pm EST, Monday-Friday.**

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