

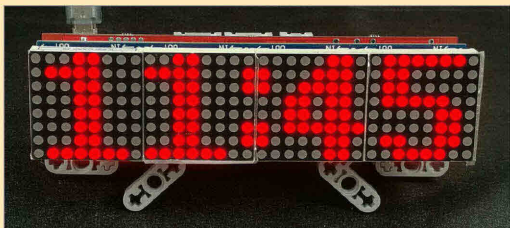
ET-MINI CLOCK 4

ET-MINI CLOCK 4 is LED Display 8X32 DOT in Red; it can be placed on the table or hanged on a wall as required. There are various types of display mode and use like displaying value of Date, Month, Year, Hour, Minute, Second, Temperature with Celsius degree, Humidity (OPTION: SENSOR ET-SENSOR AM2302), Timer, displaying flashing messages of OPEN and CLOSE, Alarm Clock, including BUZZER and CONNECTORS. Moreover, it is more special, especially the model ET-MINI CLOCK 4 PLUS and ET-MINI CLOCK 4 BOX PLUS because it tells time by voice in Thai and English. User can add more audio file of MP3 to be ringtone or alarm in MICRO SD CARD according to the specified folder's position. For more information, please read the manual.

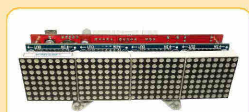
ET-MINI CLOCK 4 controls and sets time through REMOTE IR, it is included in the package; or, it is set through GPS.

● MODEL ET-MINI CLOCK 4 (P-ET-A-00584)

It is bare Clock with Lego stand, no box, and no voice.



ET-MINI CLOCK 4 ... consists of



ET-MINI CLOCK 4



IR REMOTE



CD-ROM MANUAL

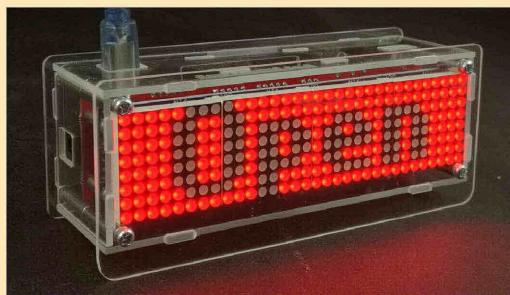


Brief Guideline

Size of ET-MINI CLOCK 4: 13.0 X 5.5 X 5.2 CM.

● MODEL ET-MINI CLOCK 4 BOX (P-ET-A-00586)

It is contained in transparent acrylic plastic box, no voice.



ET-MINI CLOCK 4 BOX ... consists of



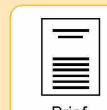
ET-MINI CLOCK 4 BOX is contained in transparent acrylic plastic box.



IR REMOTE



CD-ROM MANUAL

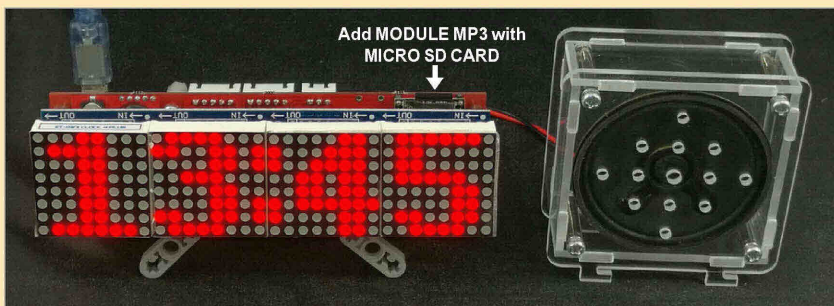


Brief Guideline

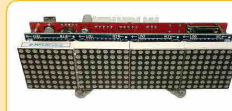
Size of ET-MINI CLOCK 4 BOX: 14.1 X 5.8 X 4.6 CM.

● MODEL ET-MINI CLOCK 4 PLUS (P-ET-A-00585)

It is bare Clock with Lego stand, no box; and it tells time by voice MP3, ET-SP MINI Speaker with transparent acrylic box.



ET-MINI CLOCK 4 PLUS ... consists of



ET-MINI CLOCK 4 PLUS



IR REMOTE



ET-SP MINI



MICRO SD CARD



Brief Guideline

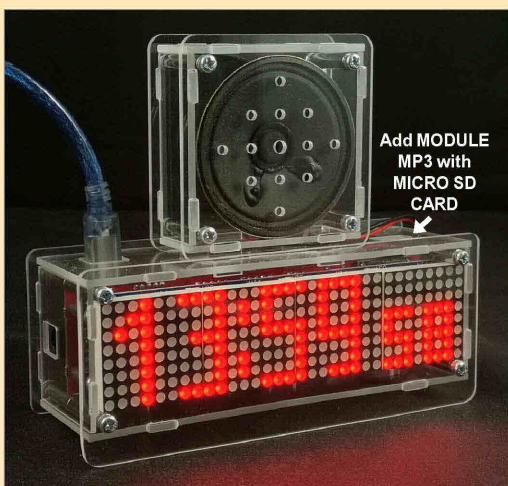


CD-ROM MANUAL

Size of ET-SP MINI: 6.8 X 7.3 X 2.5 CM.

● MODEL ET-MINI CLOCK 4 BOX PLUS (P-ET-A-00587)

It is contained in transparent acrylic plastic box and it tells time by voice MP3, and ET-SP MINI Speaker with transparent acrylic box.



ET-MINI CLOCK 4 BOX PLUS ... ประกอบด้วย



ET-MINI CLOCK 4 BOX PLUS is contained in transparent acrylic plastic box.



IR REMOTE



ET-SP MINI



CD-ROM MANUAL



MICRO SD CARD



Brief Guideline

Size of ET-SP MINI: 6.8 X 7.3 X 2.5 CM.

Size of ET-MINI CLOCK 4 BOX PLUS: 14.1 X 5.8 X 4.6 CM.

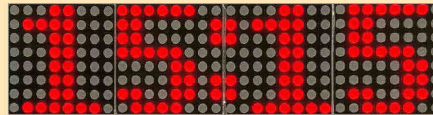
SPECIFICATIONS OF ALL MODELS OF ET-MINI CLOCK 4

- Use DC 5V Power Supply for Clock connected via Connector MINI USB (connected from PORT USB of Computer), or connected via DC JACK TYPE J to be DC12V
- Use MCU ATMEGA328 to run and process
- Use 20-KEY IR REMOTE to command (included in package)
- Choose and set various types of display mode; Date, Time, Temperature, Humidity (OPTION: ET-SENSOR AM2302), Timer, Display flashing messages "OPEN or CLOSE".
- Use Time Base RTC No.DS3231 with BATTERY BACKUP
- DISPLAY Type is Red 4-DIGIT LED DOT MATRIX (8 X 32 DOT); Size: 13.0 x 3.2 cm.

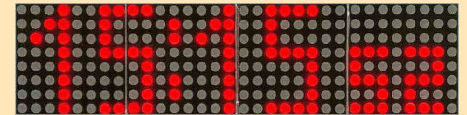


สั่งงานผ่าน IR REMOTE

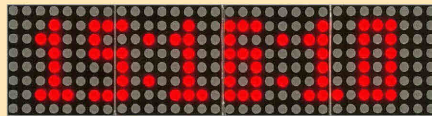
- User can choose and set various types of display mode; for example,



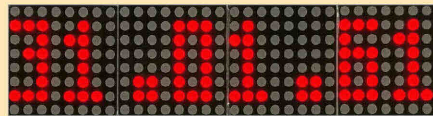
(1) Display Hour/Minute



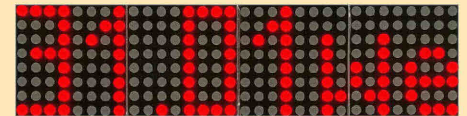
(2) Display Hour/Minute/Second Type 1



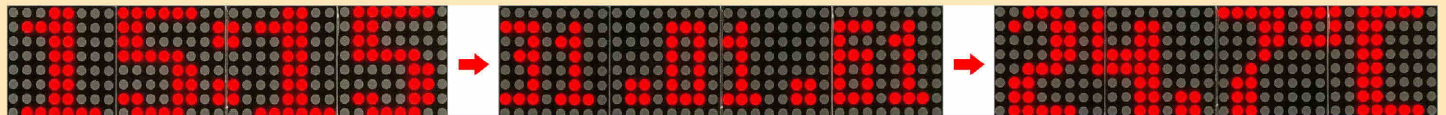
(3) Display Hour/Minute/Second Type 2



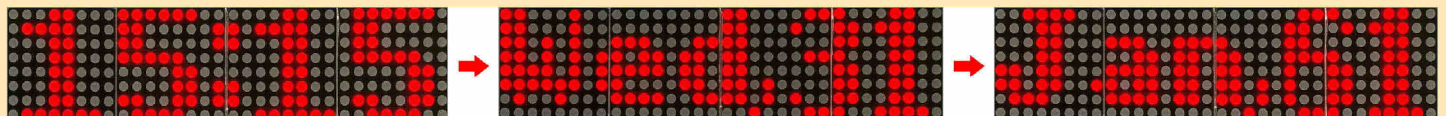
(4) Display Date/Month/Year



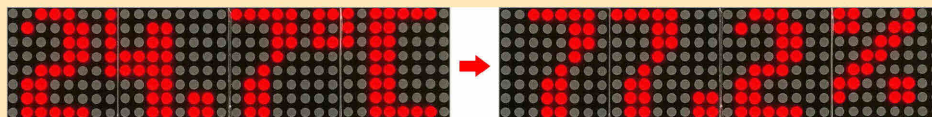
(5) Display Date/Month/Days of a week



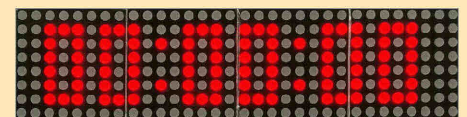
(6) Display Hour+Minute/Date+Month+Year/Temperature in Celsius Degree; each type is alternately displayed and changed every 10 second.



(7) Display Hour+Minute/ Days in a Week+Date/Month+Year; each type is alternately displayed and changed every 10 second.



(8) Display Temperature in Celsius Degree/Percentage (%) of Humidity; each type is alternately displayed and changed every 10 second.



(9) Timer: Minute/Second/1/100 Second

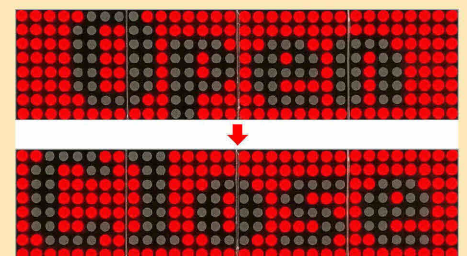
- Set 16-Level Brightness of Display
- Choose year format either Buddhist Era (B.E) or Christian Era (A.D.)
- Display Temperature value that is read from IC RTC DS3231; ERROR is +/- 3 Celsius degree
- 3 PIN 2.50mm. is OUTPUT RS232 TTL; it prints the value of Date and Time of Clock.
- 5 PIN 2.50mm. is connected to ET-SENSOR AM2302 to measure Temperature and Humidity.
- 5 PIN 2.50mm. is used as INPUT TTL to Start and Stop Timer

ADDITIONAL SPECIFICATIONS OF MODEL PLUS (VOICE)

- Add Speaker (ET-SP MINI) with Cable and transparent acrylic box
- Add MODULE MP3 with MICRO SD CARD; included 2 audio file languages (THAI/ENGLISH) to tell time, support audio file MP3, support FAT16 and FAT32
- Tell time every hours, adjust volume up to 30 levels
- PLAY/STOP/NEXT audio file MP3 in MICRO SD CARD (to listen to file song)
- Set alarm for birthday; Alarm is sounded from the audio file MP3 that is specified by user.

*** All Package of ET-MINI CLOCK 4 has included ET-IR REMOTE, Document and CD-ROM Manual.

*** DC 12V POWER SUPPLY is not included in ET-MINI CLOCK SET,



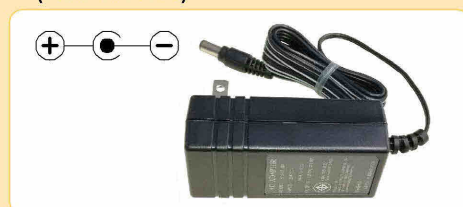
(TEST) Open or Close (Blink Invert)



• The connection between the ET-MINI CLOCK 4 with ET-SENSOR AM2302

OPTION

- ET-SWITCHING ADAPTER 12V 1A TYPE J (A-AP-A-00098)



INPUT: 220VAC, 50/60Hz, 0.5A
 OUTPUT: 12VDC 1A The Connector Type is FEMALE JACK 2.5mm. Inner is Cathode and Outer is Anode.

- ET- ADAPTER ROUND PLUG 12V 1A TYPE J (A-AP-A-00120)



INPUT: AC 100-240VAC, 50-60 Hz, 500 mA,
 OUTPUT: 12VDC 1A The Connector Type is FEMALE JACK 2.5mm. Inner is Cathode and Outer is Anode.

- ET-SENSOR AM2302 (P-ET-A-00540)



SENSOR measures humidity and temperature. It uses SENSOR AM2302 (DHT22).

HUMIDITY ACCURACY (% RH) : +/- 2.0 %RH

TEMP. ACCURACY (° C) : +/- 0.5 °C

INTERFACE : SINGLE BUS

- Included Connector 5 PIN and CABLE Both Terminal 5PIN with 30cm length