

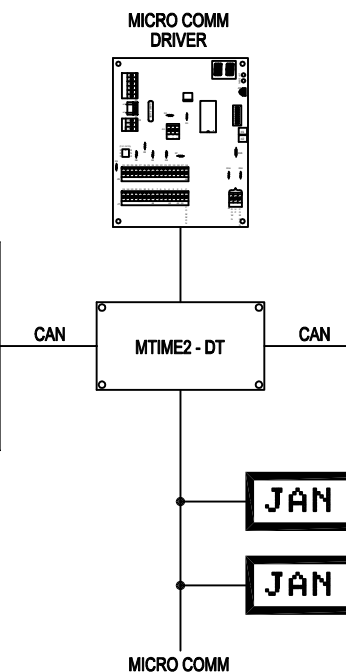
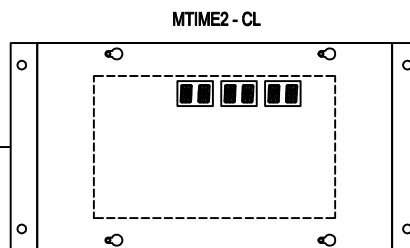
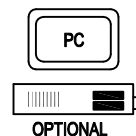
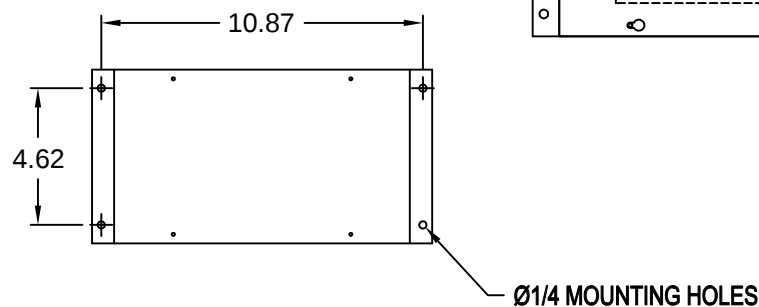
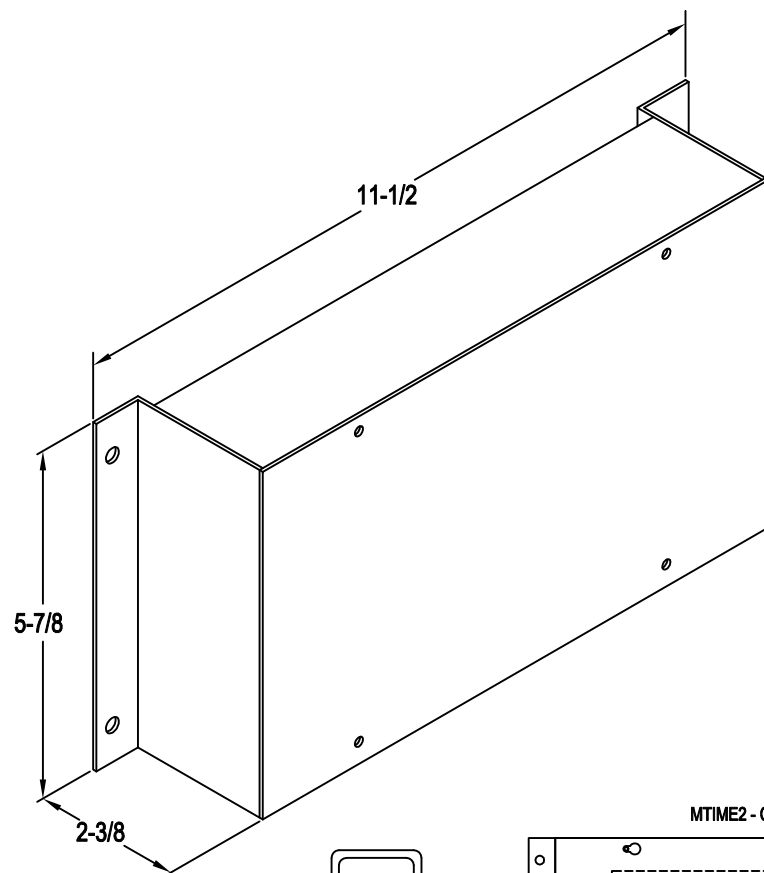


C.E. Electronics, Inc.
2107 Industrial Drive
Bryan, OH 43506
PH (419) 636-6705 FX (419) 636-2516
www.ccelectronics.com

MTIME2-X

Ver. 2 Rel. 7/12/2019

ACCESSORIES



TIME and DATE MODULE

This unit is based in conjunction with all C.E. Electronics scrolling message centers. The date and time can be integrated into messages or displayed continuously on the screen.

This unit can also be used in conjunction with the C.E. Elite and scrolling message position indicators

The unit can be formatted to the most popular U.S. and European styles of displaying the date and time. A battery backup will maintain the settings during power failures.

Daylight savings time adjustments can be AUTOMATIC or manual. Current U.S. and EU standards are integrated into the unit.

Features

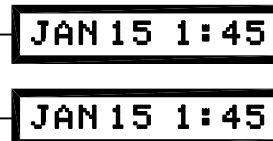
- Automatic daylight savings time adjustments
- Date and time in U.S. or European formats
- Adjustable time zone
- Includes setup software, Windows compatible

TO ORDER - SPECIFY; MTIME2-X

CARS:

"1-9" = NUMBER OF CARS

"X" = NO CARS

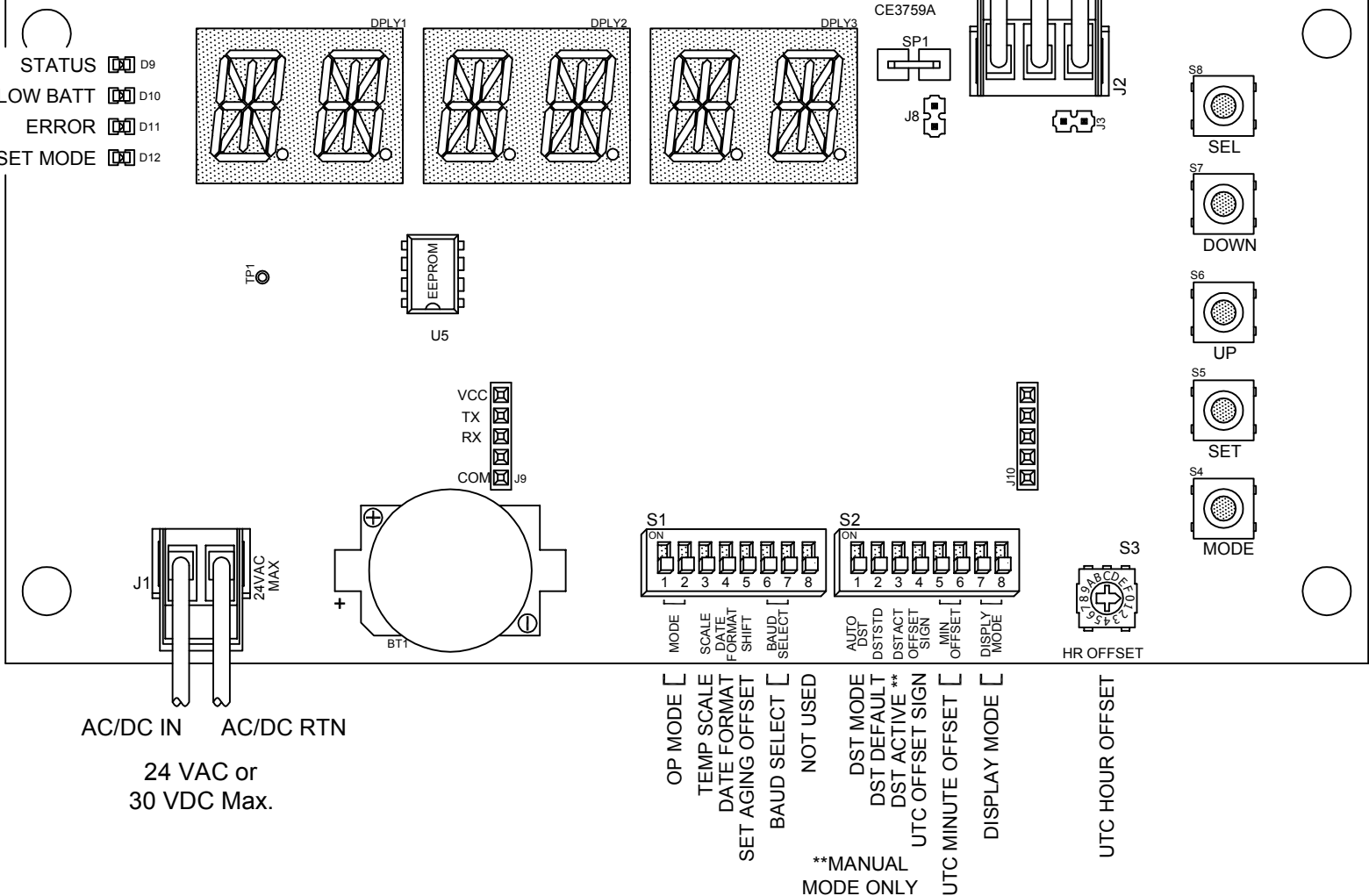
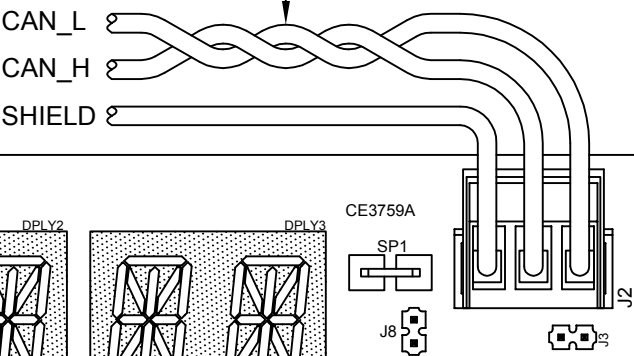


Scrolling message centers
or
C.E. Electronics Elite position indicators

MTIME2-X
(CLOCK BOARD)

JOB# _____

Twisted Pair Wires



S1 DEFAULT SETTINGS

								ON
								OFF
1	2	3	4	5	6	7	8	

S2 DEFAULT SETTINGS

								ON
								OFF
1	2	3	4	5	6	7	8	

CODE VERSION _____

BOARD VERSION CE3759 _____

DATE DRAWN: 06/09/15	DRAWN BY: DAC	REQUESTED BY: KS	 C.E. ELECTRONICS, INC. 2107 Industrial Drive Bryan, OH 43506 (419) 636-6705
BOARD NUMBER: 3759	LAST DATE REVISED: -	APPROVED BY:	
PRODUCT TIME AND DATE MODULE			
DWG. NO. MTIME2_01			REV: -

DIP SWITCH S1

OP MODE	DS1	DS2
NORMAL	OFF	OFF
TEST	ON	OFF
REPEAT	OFF	ON

DS4	DATE FORMAT	DPLY1/DPLY2/DPLY3
OFF	U.S.	MM/DD/YY
ON	INTERNATIONAL	DD/MM/YY

BAUD RATE (kbits/sec)	DS6	DS7
9600	OFF	OFF
19200	ON	OFF
38400	OFF	ON
57600	ON	ON

DIP SWITCH S2

Daylight Saving Time (DST)				
DS1	DS2	DS3	DST Handling	DST Status
OFF	X	OFF	Manual	DST is Not Active
OFF	X	ON	Manual	DST is Active
ON	OFF	X	Automatic	Controlled by US/Canada Standard
ON	ON	X	Automatic	Controlled by EU Standard

UTC Offset			
DS4	DS5	DS6	Function
See the Time Zone Offset Chart included in the MTIME2 packaging.			

US Standard - Begins: 2nd Sunday of March @ 2:00 AM Local

Ends: 1st Sunday of November @ 2:00 AM Local

EU Standard - Begins: Last Sunday of March @ 1:00 AM UTC

Ends: Last Sunday of October @ 1:00 AM UTC

Display Mode			
DS7	DS8	Display	Comments
OFF	OFF	Normal Display	Shows Local Time/Date and DST Status
OFF	ON	UTC Display	Shows UTC Offset, UTC Time/Date
ON	OFF	Timestamp Display	Shows Timestamp Time/Date [1]
ON	ON	Status Display	Shows Error Messages, Board Count, Code Version

[1] Timestamp shows when a power outage causes the battery to source the RTC chip.

Button	Normal Mode	Set Time Mode
SELECT (S8)	Pressing this button forces a send of the time data over CAN	Press this button to change the selected cube so it can be updated
DOWN (S7)	Use to cycle through errors in error status display mode	Press this button to decrement the selected value by 1. Hold the button to cause continuous decrementing at 0.5 second intervals.
UP (S6)	Use to cycle through errors in error status display mode	Press this button to increment the selected value by 1. Hold the button to cause continuous incrementing at 0.5 second intervals.
SET (S5)	Holding this button will put the board into Set Time Mode	Press this button to set the time and date, updating the time in the RTC chip.
MODE (S4)	Pressing this button changes the display sub-mode of the cubes.	

LED	Function
D9 GREEN	Blinks at 0.5 second intervals
D10 RED	ON when the battery is low
D11 RED	Blinks if there is an error
D12 BLUE	On in Set Time Mode

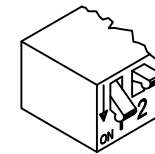
DATE DRAWN: 06/11/15	DRAWN BY: DAC	REQUESTED BY: KS	 C.E. ELECTRONICS, INC. 2107 Industrial Drive Bryan, OH 43506 (419) 636-6705
BOARD NUMBER: 3759	LAST DATE REVISED: -	APPROVED BY:	
PRODUCT TIME/TEMP BOARD INFORMATION			
DWG. NO. MTIME2_03			REV. -

(Time Programming Board)

STATUS LED - GREEN
BLINKS TO SHOW THAT THE
PROCESSOR IS OPERATING

ERROR LED - RED
LIGHTS IF NO CAN DATA
RECEIVED IN 30 SECONDS

COMM LED - BLUE
FLASHES TO SHOW CAN
DATA SENT OR RECEIVED

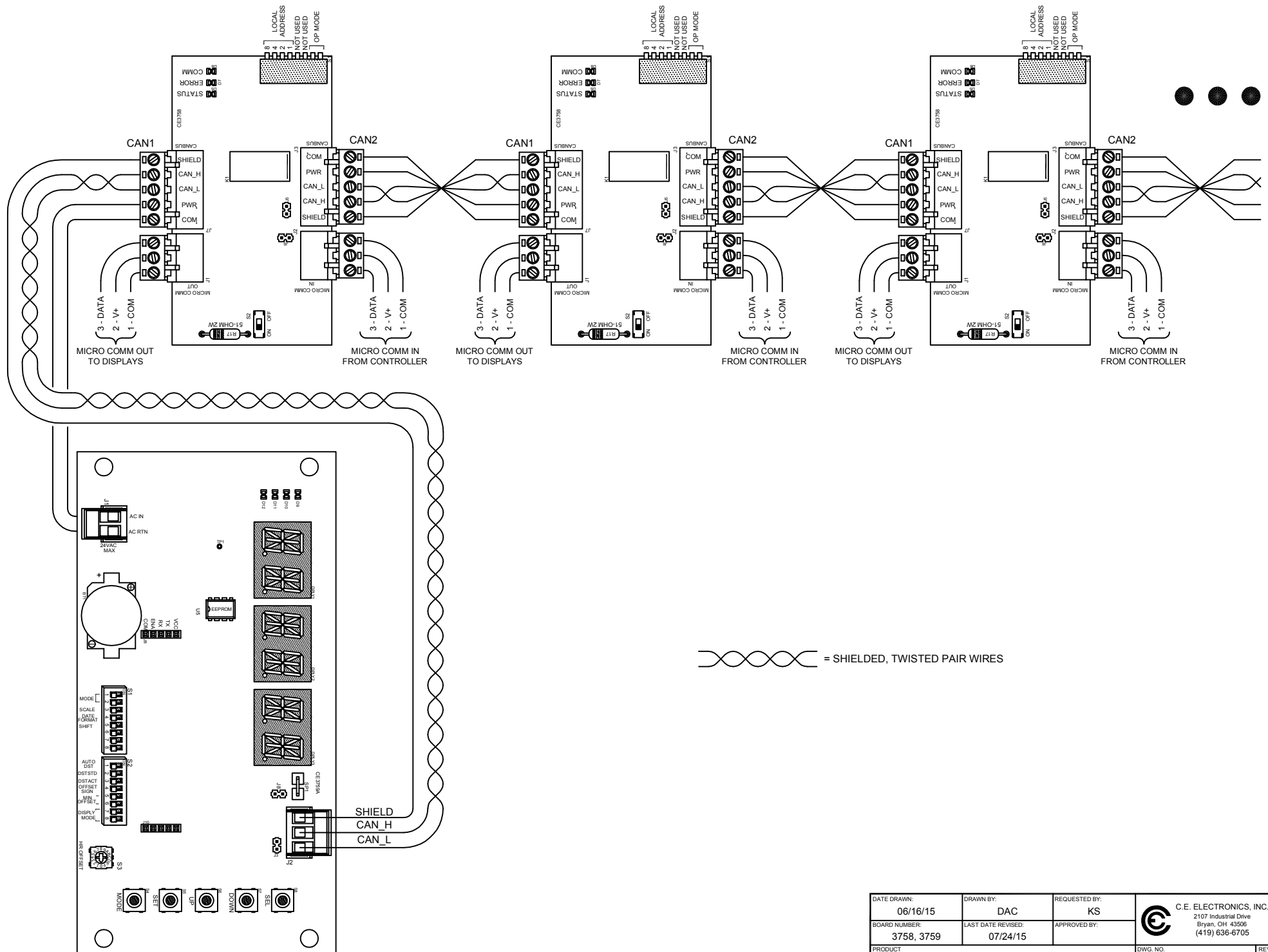


								OFF
								ON
1	2	3	4	5	6	7	8	

CODE VERSION

BOARD VERSION CE3758

DATE DRAWN: 06/10/15	DRAWN BY: DAC	REQUESTED BY: KS	 C.E. ELECTRONICS, INC. 2107 Industrial Drive Bryan, Ohio 43505 (419) 636-6705
BOARD NUMBER: 3758	LAST DATE REVISED: 07/24/15	APPROVED BY:	
PRODUCT TIME PROGRAMMING BOARD			DWG. NO. MTIME2 02
			REV: A



DATE DRAWN: 06/16/15	DRAWN BY: DAC	REQUESTED BY: KS	 C.E. ELECTRONICS, INC. 2107 Industrial Drive Bryan, OH 43506 (419) 636-6705
BOARD NUMBER: 3758, 3759	LAST DATE REVISED: 07/24/15	APPROVED BY:	
PRODUCT MTIME2 CONNECTION EXAMPLE			
DWG. NO. MTIME2_04			REV. A

Time Zone	Offset	S2D4	S2D5	S2D6	S3
North America					
East Greenland Time	-1:00	ON	OFF	OFF	1
West Greenland Time	-3:00	ON	OFF	OFF	3
Newfoundland Standard Time	-3:30	ON	OFF	ON	3
Atlantic Standard Time	-4:00	ON	OFF	OFF	4
Eastern Standard Time, Cuba Standard Time	-5:00	ON	OFF	OFF	5
Central Standard Time	-6:00	ON	OFF	OFF	6
Mountain Standard Time	-7:00	ON	OFF	OFF	7
Pacific Standard Time	-8:00	ON	OFF	OFF	8
Alaska Standard Time	-9:00	ON	OFF	OFF	9
Hawaii-Aleutian Standard Time	-10:00	ON	OFF	OFF	10
Europe					
Greenwich Mean Time, Western European Time, Irish Standard Time	0:00	OFF	OFF	OFF	0
Central European Time	+1:00	OFF	OFF	OFF	1
Eastern European Time	+2:00	OFF	OFF	OFF	2
Moscow Standard Time, Further Eastern European Time	+3:00	OFF	OFF	OFF	3
Asia					
Israel Standard Time	+2:00	OFF	OFF	OFF	2
Arabia Standard Time	+3:00	OFF	OFF	OFF	3
Iran Standard Time	+3:30	OFF	OFF	ON	3
Armenia Time, Gulf Standard Time, Georgia Standard Time, Azerbaijan Time	+4:00	OFF	OFF	OFF	4
Afghanistan Time	+4:30	OFF	OFF	ON	4
Pakistan Standard Time, Oral Time, Tajikistan Time, Turkmenistan Time, Uzbekistan Time, Yekaterinburg Time	+5:00	OFF	OFF	OFF	5
India Standard Time	+5:30	OFF	OFF	ON	5
Nepal Time	+5:45	OFF	ON	ON	5
Bangladesh Standard Time, Bhutan Time, Kyrgyzstan Time, Novosibirsk Time, Omsk Standard Time	+6:00	OFF	OFF	OFF	6
Myanmar Time	+6:30	OFF	OFF	ON	6
Indochina Time, Krasnoyarsk Time, Hovd Time	+7:00	OFF	OFF	OFF	7
China Standard Time, Hong Kong Standard Time, Malaysia Standard Time, Irkutsk Time, Ulaanbaatar Time, Brunei Darussalam Time	+8:00	OFF	OFF	OFF	8
Japan Standard Time, Korea Standard Time, Yakutsk Time	+9:00	OFF	OFF	OFF	9
Magadan Time, Sakhalin Time, Vladivostok Time	+10:00	OFF	OFF	OFF	10
Srednekolymsk Time	+11:00	OFF	OFF	OFF	11
Anadyr Time, Kamchatka Time	+12:00	OFF	OFF	OFF	12
Australia/New Zealand/Indonesia					
Western Indonesian Time	+7:00	OFF	OFF	OFF	7
Australian Western Standard Time, Central Indonesian Time, Philippine Time	+8:00	OFF	OFF	OFF	8
Australian Central Western Standard Time	+8:45	OFF	ON	ON	8
Eastern Indonesian Time	+9:00	OFF	OFF	OFF	9
Australian Central Standard Time	+9:30	OFF	OFF	ON	9
Australian Eastern Standard Time, Papua New Guinea Time	+10:00	OFF	OFF	OFF	10
New Zealand Standard Time	+12:00	OFF	OFF	OFF	12
South America					
Uruguay Time, Argentina Time, Brasilia Time, Suriname Time, French Guiana Time	-3:00	ON	OFF	OFF	3
Amazon Time, Bolivia Time, Chile Standard Time, Paraguay Standard Time, Guyana Time	-4:00	ON	OFF	OFF	4
Venezuelan Standard Time	-4:30	ON	OFF	ON	4
Colombia Time, Peru Time, Ecuador Time	-5:00	ON	OFF	OFF	5
Africa					
Western Sahara Standard Time	0:00	OFF	OFF	OFF	0
West Africa Time	+1:00	OFF	OFF	OFF	1
Central Africa Time, South Africa Standard Time	+2:00	OFF	OFF	OFF	2
Eastern Africa Time	+3:00	OFF	OFF	OFF	3

MTIME2 TIME ZONE OFFSET LIST

(LOCATION ORDER)

DATE DRAWN: 06/18/15	DRAWN BY: DAC	REQUESTED BY: KS	 C.E. ELECTRONICS, INC. 2107 Industrial Drive Bryan, OH 43506 (419) 636-6705
BOARD NUMBER: N/A	LAST DATE REVISED: -	APPROVED BY:	
PRODUCT MTIME2 Time Zone Offset List (Location Order)			
DWG. NO. MTIME2_06			REV: -