MTIME2-X

(CLOCK BOARD)

JOB# _____

Twisted Pair Wires

CAN_L
CAN_H
SHIELD

DPLY1 DPLY2 DPLY3

CE3759A
SP1
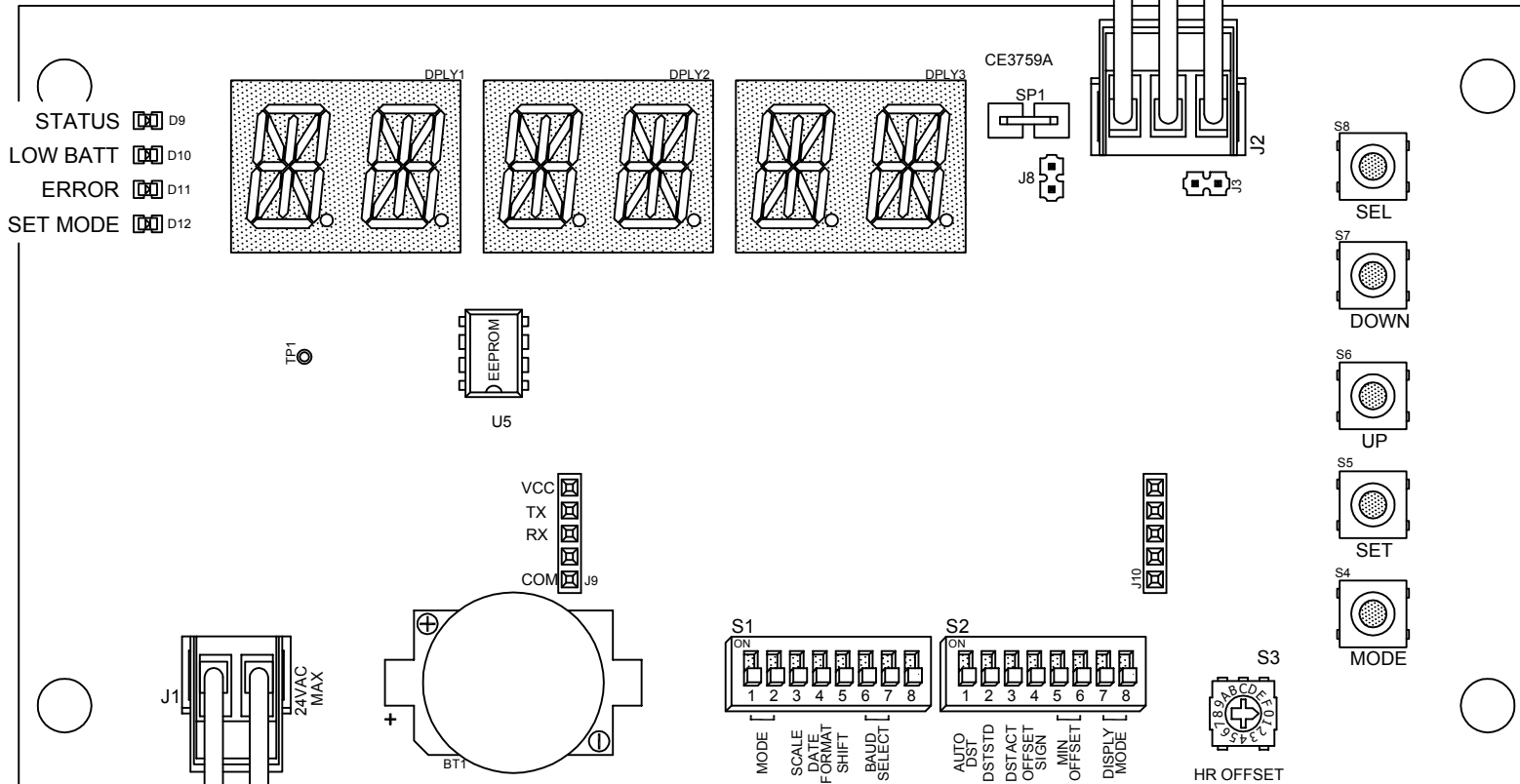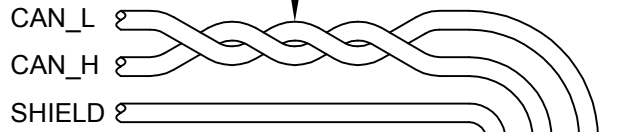
STATUS D9
LOW BATT D10
ERROR D11
SET MODE D12

J8 J3 J2

S8
SEL

S7
DOWN

TP1

EEPROM
U5

S6
UP

VCC
TX
RX
COM J9

J10

S5
SET

S4
MODE

J1

24VAC MAX

BT1

S1
ON
1 2 3 4 5 6 7 8

S2
ON
1 2 3 4 5 6 7 8

S3

HR OFFSET

MODE
SCALE
DATE FORMAT
SHIFT
BAUD SELECT

AUTO DST
DSTSTD
DSTACT
OFFSET SIGN
MIN OFFSET
DISPLAY MODE

S1 DEFAULT SETTINGS

								ON
							X	OFF

1 2 3 4 5 6 7 8

AC/DC IN   AC/DC RTN

24 VAC or
30 VDC Max.

OP MODE
TEMP SCALE
DATE FORMAT
SET AGING OFFSET
BAUD SELECT
NOT USED

DST MODE
DST DEFAULT
DST ACTIVE **
UTC OFFSET SIGN
UTC MINUTE OFFSET
DISPLAY MODE

UTC HOUR OFFSET

**MANUAL
MODE ONLY

S2 DEFAULT SETTINGS

								ON
								OFF

1 2 3 4 5 6 7 8

CODE VERSION _____

BOARD VERSION CE3759 ___

DATE DRAWN:\n06/09/15	DRAWN BY:\nDAC	REQUESTED BY:\nKS	C.E. ELECTRONICS, INC.
BOARD NUMBER:\n3759	LAST DATE REVISED:\n-	APPROVED BY:	2107 Industrial Drive\nBryan, OH 43506\n(419) 636-6705
PRODUCT\nTIME AND DATE MODULE			DWG. NO.\nMTIME2_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