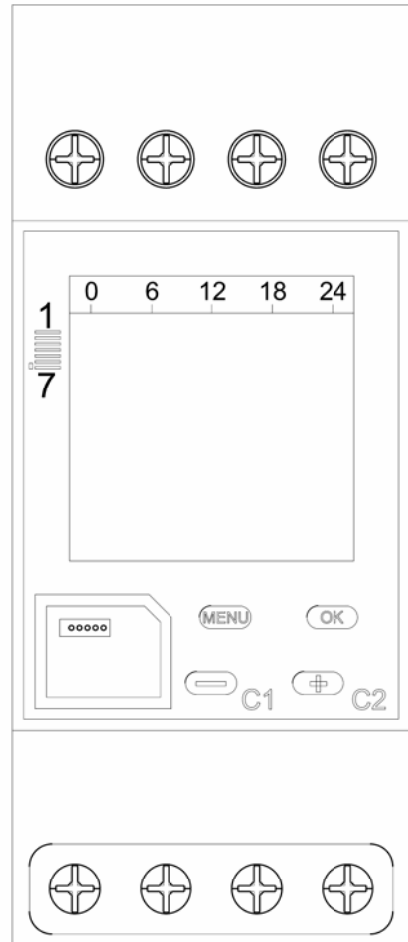


LEGRAND D21 ASTRO TIMER

'MENU' ACTIVATES THE MAIN MENU AND ALSO FUNCTIONS AS THE BACK KEY.
 'OK' CONFIRMS THE SETTING OR LOADS THE SET PARAMETER
 - SCROLLS UP THROUGH THE MENU
 + SCROLLS DOWN THROUGH THE MENU



- TO SET THE TIME:
- 1) PRESS 'MENU'
 - 2) SELECT 'SET'
 - 3) SELECT 'TIME/DATE'
 - 4) ENTER THE CURRENT HOUR, MINUTE, SECOND, DAY, MONTH AND YEAR AS REQUESTED
 - 5) PRESS 'MENU'
 - 6) SELECT 'SET'
 - 7) SELECT 'SUMMERTIME'
 - 8) SELECT 'NO' TO DISABLE THE DAYLIGHT SAVINGS FUNCTION

- TO PROGRAM WITH KEY: 1) INSERT KEY INTO KEY SLOT
 2) SELECT 'READ' AND PRESS 'OK'

- WITHOUT KEY: 1) PRESS 'MENU'
 2) SELECT 'SET'
 3) SELECT 'ASTRO'
 4) IN THE 'COORDINATE' SECTION ENTER THE LATITUDE, LONGITUDE AND TIME ZONE FOR THE PARTICULAR LOCATION FROM TABLE 1
 5) IN THE 'OFFSET' SECTION ENTER THE SUNRISE AND SUNSET OFFSET FOR THE PARTICULAR LOCATION FROM TABLE 1

THE STAR SYMBOL ON THE MAIN DISPLAY WILL INDICATE THAT THE TIMER IS IN ASTRO MODE

- TEST FUNCTION
- 1) PRESS 'MENU'
 - 2) SELECT 'OPTIONS'
 - 3) SELECT '1H-TEST'
 - 4) SELECT 'PASSIVE'

WHEN THIS FUNCTION IS ACTIVATED, THE OUTPUTS ARE SWITCHED ON FOR ONE HOUR. AFTER ONE HOUR THE TIME SWITCH RETURNS AUTOMATICALLY TO THE PROGRAMMED MODE.

TABLE 1

MAJOR LOCATION	LONGITUDE	LATITUDE	SUNRISE OFFSET	SUN SET OFFSET	TIME ZONE
DARWIN	131 E	12 S	+5 MINS	-5 MINS	+9 HOURS 30 MINS.
KATHERINE	132 E	14 S	+5 MINS	-5 MINS	
TENNANT CREEK	134 E	20 S	+5 MINS	-5 MINS	
ALICE SPRINGS	134 E	24 S	+5 MINS	-5 MINS	

STOCK CODE: 412553

ABB TWA-1 ASTRO TIMER

'MENU' ACTIVATES THE MAIN MENU AND ALSO EXITS THE FUNCTIONS
 'ENTER' CONFIRMS THE SETTING OR LOADS THE SET PARAMETER
 - SCROLLS UP THROUGH THE MENU
 + SCROLLS DOWN THROUGH THE MENU

- TO SET THE TIME: 1) PRESS 'MENU'
 2) SELECT THE CLOCK FACE ICON
 3) ENTER THE DAY, MONTH, YEAR, HOUR AND MINUTE AS REQUESTED. NEXT SELECT 'NO' TO DISABLE THE DAYLIGHT SAVINGS FUNCTION

- TO PROGRAM WITH KEY: 1) INSERT KEY AND WAIT 2 SECONDS
 2) PRESS 'MENU'
 3) SELECT 'LOAD' AND PRESS 'ENTER'
 4) PRESS 'ENTER' AGAIN TO CONFIRM

- WITHOUT KEY: 1) PRESS 'MENU'
 2) SELECT 'ASTRO'
 3) ENTER THE LONGITUDE ('Lo') FROM TABLE 2
 4) ENTER THE LATITUDE ('Lat') FROM TABLE 2
 5) ENTER THE TIME ZONE ('Udt') FROM TABLE 2
 6) ENTER THE SUNRISE OFFSET ('RI') FROM TABLE 2
 7) ENTER THE SUNSET OFFSET ('Set') FROM TABLE 2
 8) ACTIVATE THE ASTRO MODE BY SELECTING 'DN'

THE STAR SYMBOL ON THE MAIN DISPLAY WILL INDICATE THAT THE TIMER IS IN ASTRO MODE

- TEST FUNCTION
 THE TEMPORARY OVERRIDES ARE ACTIVATED BY PRESSING THE HAND BUTTON
 FIRST PRESS: TEMPORARY OFF. OFF AND HAND SYMBOL WILL FLASH. AT THE NEXT PROGRAMMED STEP THE TIMER WILL RETURN TO AUTOMATIC MODE.
 SECOND PRESS: PERMANENT ON. ON AND THE HAND SYMBOL WILL STAY ON. THIS STATUS MUST BE MANUALLY CANCELLED.
 THIRD PRESS: 15 MIN OVERRIDE. 15 AND THE HAND SYMBOL ARE DISPLAYED. THE TIMER WILL RETURN TO AUTOMATIC MODE AFTER 15 MINS.
 FOURTH PRESS: 30 MIN OVERRIDE. 30 AND THE HAND SYMBOL ARE DISPLAYED. THE TIMER WILL RETURN TO AUTOMATIC MODE AFTER 30 MINS.
 FIFTH PRESS: 60 MIN OVERRIDE. 60 AND THE HAND SYMBOL ARE DISPLAYED. THE TIMER WILL RETURN TO AUTOMATIC MODE AFTER 60 MINS.
 SIXTH PRESS: PERMANENT OFF. OFF AND THE HAND SYMBOL ARE DISPLAYED. THIS STATUS MUST BE MANUALLY CANCELLED.
 SEVENTH PRESS: RETURN TO AUTOMATIC MODE

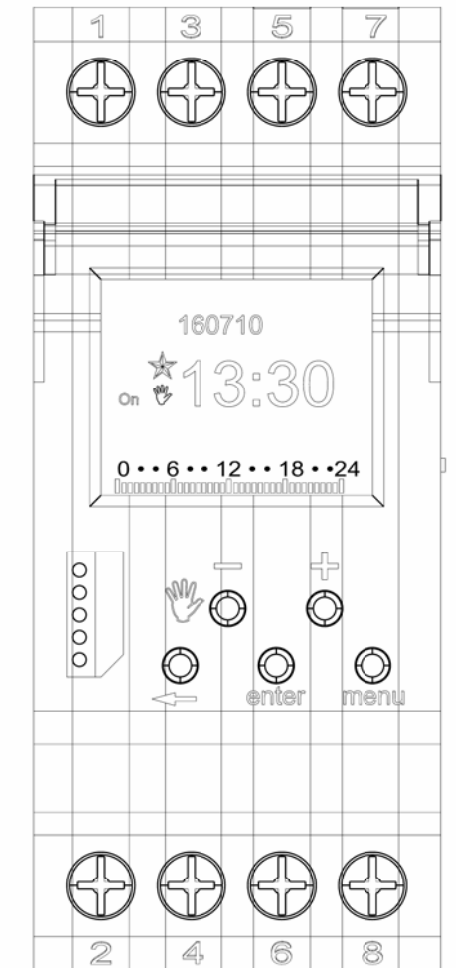


TABLE 2

MAJOR LOCATION	LONGITUDE	LATITUDE	SUNRISE OFFSET	SUN SET OFFSET	TIME ZONE
DARWIN	131 E	12 S	+35 MINS	+25 MINS	+9 HOURS
KATHERINE	132 E	14 S	+35 MINS	+25 MINS	
TENNANT CREEK	134 E	20 S	+35 MINS	+25 MINS	
ALICE SPRINGS	134 E	24 S	+35 MINS	+25 MINS	

NO	DESCRIPTION	DRN	DATE	CKD	APPD
0	ISSUED FOR CONSTRUCTION	J.C.	APR '11	A.T.	S.C.
AMENDMENTS					

PowerWater

DES	N.K.	POWER STANDARD DRAWING			
DRN	-	TIME CONTROL PACK ASTRO TIMER SETTINGS			
CKD	A.T.				
APPD	B.C.				
SCALE	N.T.S.				
ISSUED	SEPT 2010	A3	DRAWING NUMBER	S03-1-5-16	
ALL DIM.	IN mm				
DRAFTING STANDARD TO A.S.1100			CAD PRODUCT - DO NOT AMEND MANUALLY		AMDT