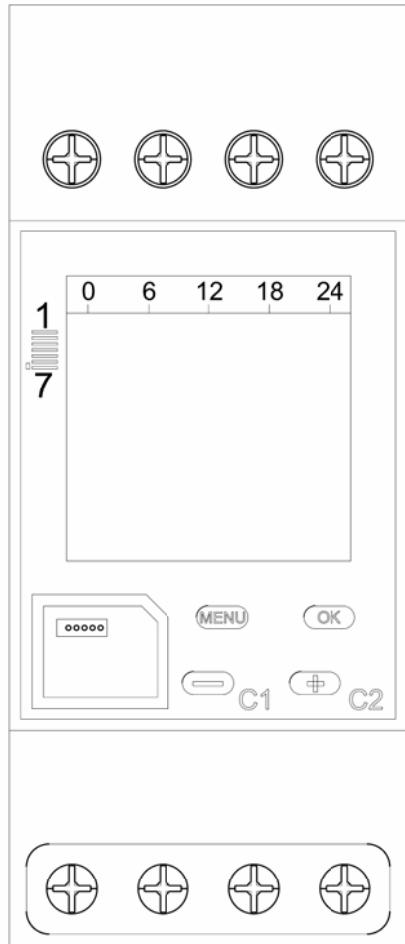


LEGRAND D21 ASTRO TIMER

'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

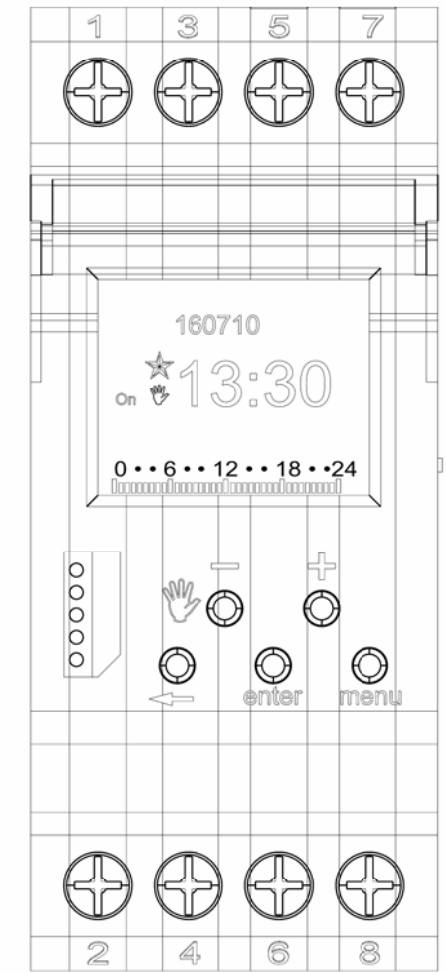


TABLE 2

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				△ 0
DRAFTING STANDARD TO A.S.1100			CAD PRODUCT - DO NOT AMEND MANUALLY		AMDT