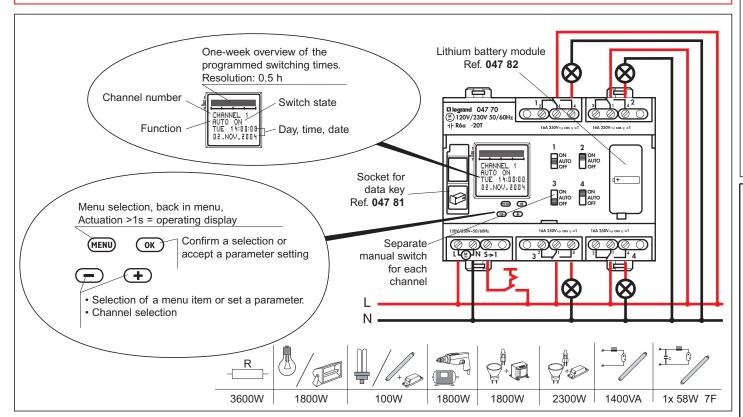
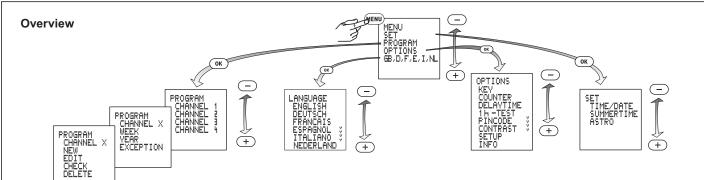
047 70 /74

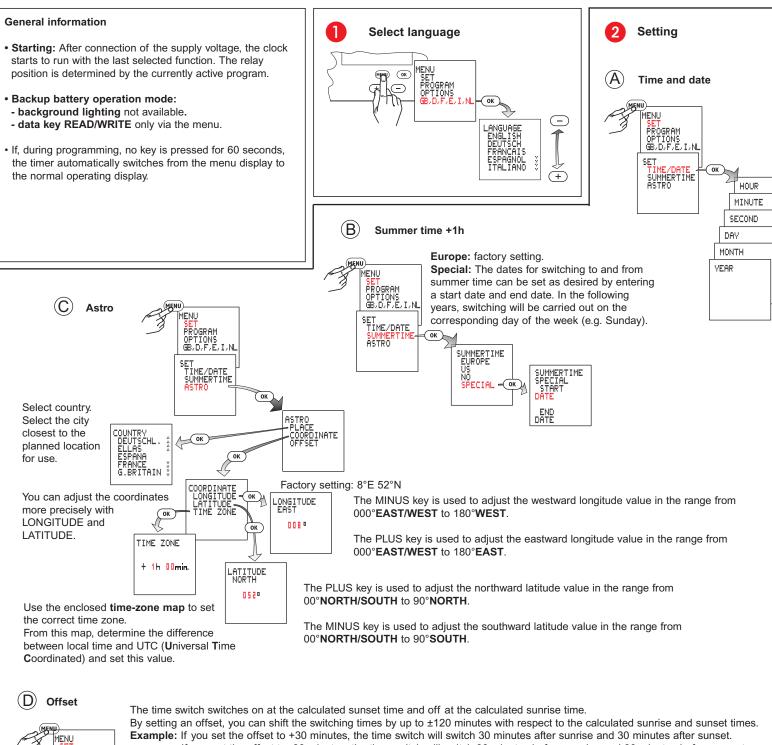


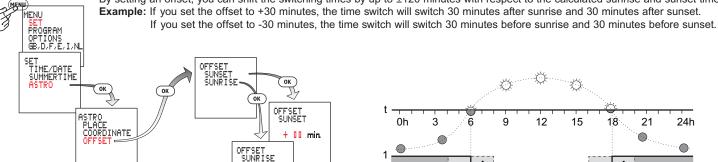
Safety notes This product may be installed only by a qualified electrician. Non-compliance may result in a fire hazard or electric shocks. Before installation, read the operating instructions and observe the product-specific requirements for the installation location. Use only original spare parts for repair and maintenance. All Legrand products may be opened and repaired only by specially trained Legrand personnel. Unauthorised opening and repair by other persons will invalidate all claims for liability, replacement or warranty services. When operated from the mains voltage, the time switch may not be used to switch safe extra-low voltages (SELV). When operated from a safe extra-low voltage, it may not be used to switch mains voltages.



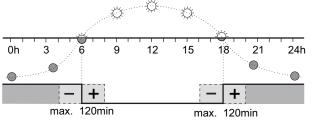


	047 70	047 74		
Supply voltage:	120 / 230V 50/60Hz	24 AC/DC	Delay time:	0 23 h 59 min 59 s
Power consumption:	approx. 0,32 W	approx. 34 W	Local coordinates:	Resolution 1°
Relay outputs 1- 4:	4 changeover contacts	16A 250V~ cos φ = 1	Battery reserve:	5 years
Accuracy:	± 0,2 s/day under typica	al installation conditions	Storage temperature:	- 20°C to +60°C
	single-strand	multi-strand	Operating principle:	Typ 1.B. S. T. IEC/EN 60730-2
Wire cross-sections:	1,54 mm <sup>2</sup>	1,52,5 mm <sup>2</sup>	Operation in a normal e	environment
Programs	4 channels x 3 program	types x 28 programs	Degree of contamination:	2
Control signal for channel 1:	supply voltage, referred	to neutral	Installation:	in distribution panel
Control-pulse duration:	> 200ms			
Control-wire length:	max. 50m			





+ 00 min

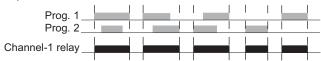




This menu item is provided for the simple input of programs which are to be repeated weekly (such as switching of lights and boilers). A weekly program consists of an ON time, an OFF time and the associated ON and OFF days.

- MON TO SUN: the days of the week are already assigned and you only need to set the ON and OFF times. This is used where the same program is to be
- executed on every day of the week.
- INDIVIDUAL: you can assign the ON and OFF times to any desired days. This is used where the same program is to be executed only on certain days of the week or different programs are to be executed on the various days.

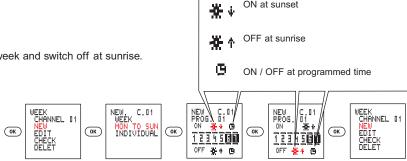
The programs defined for each channel are ORed together. In other words, the output will be active if this is defined in any of the programs. Example: channel 1



## Sample WEEK program

The timer is to switch on at sunset on each day of the week and switch off at sunrise.

OK)



# 3B PROGRAM / YEAR

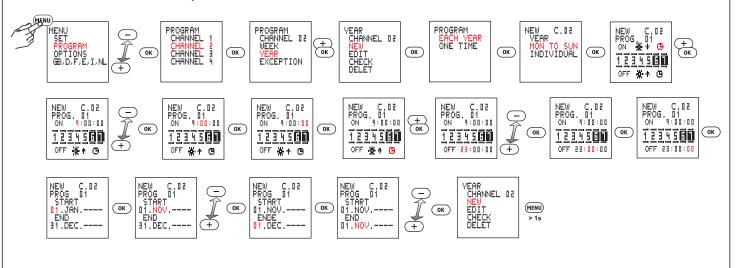
This menu item permits the input of (additional) annual programs which are to be executed only during a specified period. These programs and the weekly programs of the same channel are ORed together as described above.

The period during which a program is to be executed is defined by entering a start date and an end date.

- The option EVERY YEAR should be selected if the additional program is to be executed during the same period of each year (e.g. Christmas, national holidays, birthdays, etc.).
- The option ONCE should be selected if the additional program is to be executed only during a single period (e.g. vacation period), but the start and end dates of this period are different in each year.

#### Sample YEAR program

Channel 2 is to be activated each year on at 09:00 hours on 01.11. and deactivated at 23:00 hours





MENU > 1s

#### PROGRAM / EXCEPTION

The weekly and annual programs defined for a channel are not executed as long as an extra program is active.

However, other exception programs will be executed while an exception program is active.

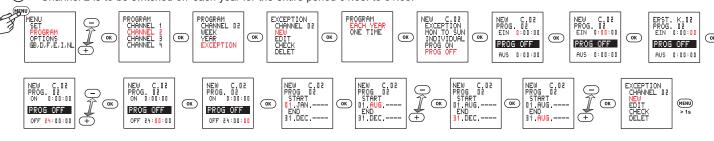
The various exception programs are ORed together as described above. (see OR function 3a)

- The option EVERY YEAR should be selected if the exception program is to be activated for the same period in each year (e.g. Christmas, national holidays, birthdays, etc.).
- The option ONCE should be selected if the exception program is to be activated only during a single period (e.g. vacation period), but the start and end dates of this period are different in each year.
- Option MON TO SUN: the exception program is active from 00:00 hours on the start date to 24:00 hours on the end date.
- During this period, the output of the related channel switches only as defined in the exception program.
- Option INDIVIDUAL: the exception program is active from 00:00 hours on the start date to 24:00 hours on the end date. During this period, the output of the related channel switches only as defined in the exception program.
- Option PROG ON: the exception program is active from the ON time on the start date to OFF time on the end date. During this period, the output
- Option PROG OFF: the exception program is active from the ON time on the start date to OFF time on the end date. During this period, the output of the channel is permanently off.

### Sample EXCEPTION programs

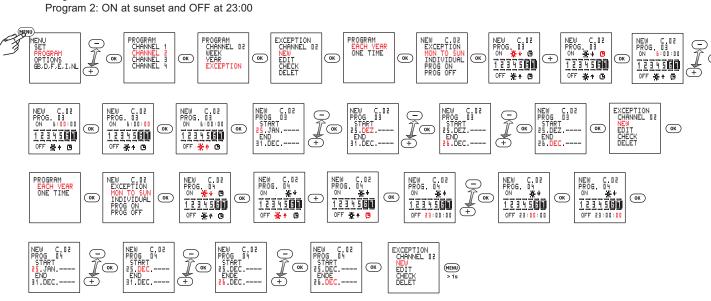
of the channel is permanently on.

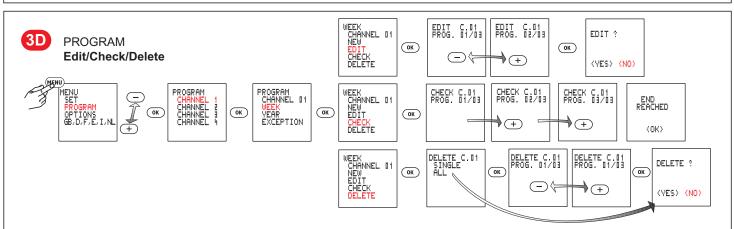
Channel 2 is to be switched off each year for the entire period 01.08. to 31.08



Each year from 25.12. to 26.12., channel 2 is to be switched on at 6:00 hours, switched off at sunrise, switched on at sunset and switched off at 23:00 hours. For this, two programs are needed:

Program 1: ON at 6:00 and OFF at sunrise





# Required inputs, depending on the program type and menu options.

Program type	Execution	Characteristics	ON/OFF times	Weekday assignments	Active period START date	Active period END date	Application, objectives, examples	
WEEK	Repeated weekly	MON TO SUN	•	0	0	0	The same switching cycle is to be executed on every day of each week. Example: switch lights on at sunset and off at 22:30:00 hours each day.	
		INDIVIDUAL	•	•	0	0	A switching cycle is to be executed only on specific days of each week.  Example: switch lights on at sunset and off at 22:30:00 hours on Monday to Friday of each week.	
YEAR	EVERY YEAR	MON TO SUN	•	0	Day, month,	Day, month,	<ul> <li>A switching cycle is to be executed on each day within a specified period of each year.</li> <li>Example: switch on the outside lights of a church from 17:00:00 to 24:00:00 in the period 1 December to 6.January.</li> <li>An existing weekly program is to be supplemented with additional switching times on each day during a specific period of each year.</li> </ul>	
		INDIVIDUAL	•	•	Day, month,	Day, month,	<ul> <li>A switching cycle is to be executed on certain days of the week within a specified period of each year.</li> <li>Example: switch on the outside lights of a church from 17:00:00 to 24:00:00 on each Sunday in the period 1 December to 6.January.</li> <li>An existing weekly program is to be supplemented with additional switching times on certain days of the week during a specific period of each year.</li> </ul>	
	ONCE	MON TO SUN	•	0	Day, month, year	Day, month, year	<ul> <li>A switching cycle is to be executed on each day of a specified period in a specified year.</li> <li>Example: in the year 2005, the heating in a holiday chalet is to be switched on from 07:30:00 to 23:00:00 on each day during the Easter holidays (25 March to 28 March 2005).</li> <li>An existing weekly program is to be supplemented with additional switching times on each day during a specific period of a specific year.</li> </ul>	
		INDIVIDUAL	•	•	Day, month, year	Day, month, year	<ul> <li>A switching cycle is to be executed on certain days of a specified period in a specified year. Example: in the current year, the lights in a sports hall are to be switched on from 19:00:00 to 22:00:00 on each Tuesday and Friday during the period from 10 .January to 23 March.</li> <li>An existing weekly program is to be supplemented with additional switching times on certain days of the week during a specific period of a specific each year.</li> </ul>	
EXCEPTION	EVERY YEAR	MON TO SUN	•	0	Day, month, from 0:00:00 hours	Day, month, to 24:00:00 hours	An exception program is to completely replace any existing weekly or annual program on each day during a specific period of each year.  Example: the irrigation pump of an orchard is to be switched on from 17:00:00 to 18:00:00 on each day in the period from 20.March to 10.April	
		INDIVIDUAL	•	•	Day, month, from 0:00:00 hours	Day, month, to 24:00:00 hours	An exception program is to completely replace any existing weekly or annual program on certain days during a specific period of each year.  Example: the irrigation pump of an orchard is to be switched on from 17:00:00 to 18:00:00 on each Monday and Friday in the period from 11 April to 15 May	
		PROG ON	•	0	Day, month, from ON time	Day, month, to OFF time	A channel is to be switched on continuously from the ON time on the START date to the OFF time on the END date every year. This exception program is to completely replace any existing weekly or annual program for this channel.  Example: instead of the normal times for illumination of a public building, the illumination is to be switched on from 17:00:00 on the national holiday 3 October until 07:00:00 the next morning 4 October	
		PROG OFF	•	0	Day, month, from ON time	Day, month, to OFF time	An output is to be switched off continuously from the ON time on the START date to the OFF time on the END date every year. This exception program is to completely replace any existing weekly or annual program for this channel.  Example: in order to save power, certain equipment in a factory is to be switched off during the Christmas holiday period of each year. i.e. from 18:00:00 on 23 December to 6:00:00 on 27 December	
	ONCE	MON TO SUN	•	0	Day, month, year from 0:00:00 hours	Day, month, year to 24:00:00 hours	On each day during a specific period of a specified year, an exception program is to completely replace any existing weekly or annual program.  Example: during the Christmas holidays of the year 2005, the heating in an apartment is to be switched each day from 7:00:00 to 23:00:00, instead of in the normal cycle. This exception period is to begin on 24 December 2005 and end on 06 January 2006.	
		INDIVIDUAL	•	•	Day, month, year from 0:00:00 hours	Day, month, year to 24:00:00 hours	On certain weekdays during a specific period of a specific year, an exception program is to completely replace any existing weekly or annual program.  Example: in December 2005, the heating system of a department store is to be switched on from 8:00:00 to 18:00:00 each Sunday, because the store opens on Sundays in the period 4 December 2005 to 18 December 2005.	
		PROG ON	•	0	Day, month, year from ON time	Day, month, year to OFF time	A channel is to be switched on continuously from the ON time on the START date to the OFF time on the END date of a specific year. This exception program is to completely replace any existing weekly or annual program for this channel.  Example: the alarm system of an office building is to be switched on continuously during the vacation period 19:00:00 on 15 July 2005 to 06:00:00 on 7 August 2005.	
		PROG OFF	•	0	Day, month, year from ON time	Day, month, year to OFF time	A channel is to be switched off continuously from the ON time on the START date to the OFF time on the END date of a specific year. This exception program is to completely replace any existing weekly or annual program for this channel.  Example: in 2005, the normal recess gong in a school is to be switched off during the summer holidays 00:00:00 on 28 July 2005 to 24:00:00 on 10 September 2005.	

Select the option PROGRAM / WEEK for a program which is to be executed a on specific days of the week and is to be repeated weekly.

Select the option PROGRAM / YEAR for a program which is to be executed each year or only in a specific year. The execution period within the year can be defined by entering start and end dates.

Select the option PROGRAM / EXCEPTION for a program which is to completely replace existing weekly or annual programs during a specified period.

# Priorities of the various program types within the same channel:

		WEEK program	YEAR program	EXCEPTION program
V	WEEK program	The various weekly programs are ORed together	The various weekly and annual programs are ORed together	The exception program is overriding within its defined period of activity.
١	YEAR program	The various weekly and annual programs are ORed together	The various annual programs are ORed together	The exception program is overriding within its defined period of activity.
E	EXCEPTION program	The exception program is overriding within its defined period of activity.	The exception program is overriding within its defined period of activity.	The various exception programs are ORed together

 Zeitzonenkarte Tijdszone kaart Carte des fuseaux horaires
 Carta dei fusi allegata Time-of-day map carta de husos horarios **-12:00 -11:00** -10:00 -9:00 -8:00 -7:00 -6:00 -5:00 -4:00 -3:00 -2:00 -1:00 UTC +1:00 +2:00 +3:00 +4:00 +5:00 +6:00 +7:00 +8:00 +9:00 +10:00 +11:00 +12:00 140 135 130 125 120 115 Reykjavik 21.W, 64 N Helsinki 25 E, 60 N 30 E, 60 N Oslo 11 E, 60 N Stockholm Omsk 73 E, 55 N 83 E, 55 N Moskva 38 E, 56 N Vancouver Calgary
123 W, 49 N ●114 W, 51 N + 3:00 Saratov 46 E, 52 N Ulaanbaatar 107 E, 48 N Seattle Chicago
88 W, 42 N Detroit
83 W, 42 N 77 E, 43 N Shenyang Porto 9 W, 41 N New York Beijing 116 E, 40 N 104 W, 39 N Minneapolis 4 W 40 N Lisboa Tunis 10 E 37 N Athinal Smir 35 E, 37 N 24 E, 38 N 27 E, 38 N Tokyo Philadelphia Lanzhou San Francisco El Djazair 3 E 37 N Xi'an 109 E, 34 N 97 W, 39 N 9 W. 39 N Dallas 97 W, 33 N Atlanta
 84,W, 34 N Tarabulus Casablanca 118 W, 34 N **Osaka** 135 E, 35 N Chongqing 8W, 34N Al-Qahira 31 E, 30 N Miami 80W, 26 N Taipei 121 E, 31 N 121 E, 25 N Ar-Riyad
Ar-Havana 82 W, 23 N Hanoi Hong Kong 100 W, 26 N Guadalajara Mexico City 99 W, 19 N Bangkok Chennai 80 E, 13 N Austria 14 E 47 N Klagenfurt 13 F 48 N 14 E 48 N 16 F 18 N 15 E 47 N Benelux Amsterdam 5 E 52 N Bruxelles 4 E 51 N Luxembourg 6 E 50 N La Paz 68 W, 16 S Cairns 146 E , 17 S Danmark Antananarivo 13 E 56 N 48 E . 19 S Rio de Janeiro Windhoek 16 E, 22 \$ Ålborg 10 ₺ 57 N Bordeaux 1 W 45 N 10 E 56 N 48 N Sao Paulo 47 W, 24 S Brisbane 153 E, 27 S Esbjerg 8 E 55 N Calais 2 E 51 N 28 E, 26 S Poland Diion 5 E 47 N Gdansk 19 E 54 N Durbar 19 E 50 N Sydney 151 E , 34 S 1 W 46 N Germany La Rochelle Santiago Katowice ● 64 W, \$1 \$ Adelaide 0 WE 49 N 71 W, 33 S **Buenos Aires** 6 E 51 N 20 E 50 N 17 E 52 N Aachen Le Havre Kraków 13 E 52 N Le Mans 0 WE 48 N Berlin Auckland 175 E, 37 S Melbourne 3 E 51 N 73 W, 37 S Düsseldor 7 E 51 N Lille Hungary Szczecin 15 E 53 N 1 E 46 N 5 E 46 N Dresden 14 E 51 N Limoge 19 E 47 N 21 E 52 N **Budapest** Emden 7 E 53 N 18 E 48 N Gyor 9 # 55 N 5 E 43 N 17 E 47 N Flensburg Portuga Espana Frankfurt 9 E 50 N Mulhouse 7 E 48 N Lisboa Pecs 18 E 46 N 9 W 39 N Barcelon 2 E 41 N 8 E 48 N 6 E 49 N 8 W 37 N Freiburg Nancy 20 E 46 N Madrid 4 W 40 N 2 W 47 N 2 E 49 N Hamburg 10 E 54 N Nantes Debrecen 22 E 48 N Porto 9 W 41 N 3 E 40 N Palma 10 € 52 N Hannover Paris Miskolc 21 E 48 N Selvilla 6 W 37 N 3 E 43 N 8 E 49 N Valencia Kassel 9 E 51 N Perpignan **Great Britain** Salgotarjan 20 E 48 N Ireland Turkey 0 WE 39 N 7 E 51 N Strasbourg Köln Aberdeen 2 W 57 N Dublin 6 W 53 N Adana 35 E 37 N Italy Cagliari Leipzig 12 E 51 N Toulouse 1 E 44 N 6 W 55 N 8 W 52 N Cork Adapazari 30 E 41 N Sweden 12 E 48 N Glasgow 4 W 56 N 9 E 39 N Galway 9 W 53 N Ankara 33 E 40 N Goteborg 8 E 52 N 6 W 54 N Halmstad Newcastle Milano 9 E 45 N Antalya 31 E 37 N 13 E 57 N 26 E 40 N 11 E 49 N 26 E 66 N 12 E 45 N Canakkale Linkoping 16 E 58 N Nürnberg Rovaniemi Liverpool 3 W 53 N Venézia Norway Switzerland 25 E 65 N 17 E 68 N 10 E 63 N Passau 13 E 49 N 9 E 44 N Gazianten 37 E 37 N 2 W 53 N 15 E 59 N Narvik Orebro <del>7 E |47 N</del> Regensburg 12 E 49 N Rostock 12 E 54 N Kajaani 28 E 64 N Sheffield Stockholm 1 W 53 N Roma 12 E 42 N 18 E 59 N 29 E 41 N Trondhei Istanbul Basel 8 E 47 N 24 E 61 N Tampere 2 W 52 N 14 E 41 N 28 E 37 N Birmingha Nápol Bergen 5 E 60 N Mugla 17 E 61 N 9 E 47 N 8 E 52 N Turku 22 E 60 N 17 E 41 N Soest London 0 WE 51 N Bari Oslo 11 E 60 N Samsur 36 E 41 N Umea 20 E 64 N 9 E 46 N 23 E 41 N Lugano 9 E 49 N 25 E 60 N Helsink 4 W 50 N 13 E 38 N 14 E 66 N 27 E 38 N 22 E 66 N 135 130 -12:00 **-11:00 -10:00** -9:00 -8:00 -7:00 -6:00 -5:00 -4:00 -3:00 -2:00 -1:00 UTC +1:00 +2:00 +3:00 +4:00 +5:00 +6:00 +7:00 +8:00 +9:00 +10:00 +11:00 +12:00