SMW-SERIES-N1 DIGITAL TIME SWITCH

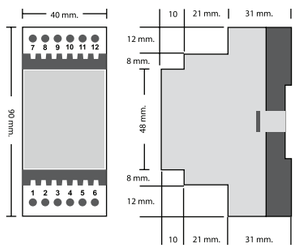
Primus
User Manual

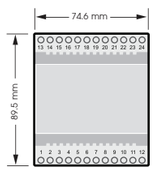


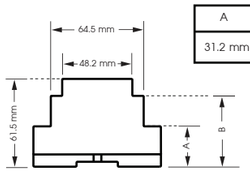
TECHNICAL SPECIFICATION

Model		SMW-01	SMW-02	SMW-03	SMW-04
Power Supply		110-240VAC 50-60 Hz			
Power Backup		Lithium (CR2032)			
Display		OLED Display 0.96 Inch			
Function	Weekly Program	ON-OFF (99 Program/Channel)			
		Recycle (1 Program/Channel)			
	Holiday Program	30 Program			
	Summer Program	10 Program			
Output (Relay)		10 A, 250 V, SPDT		5 A, 250 V, SPDT	
Time Accuracy		⩽ ±2 Minute/Year			
Mode		Auto, Manual			
Number of Channels		1	2	3	4
Ambient Operation	Temperature	-10 ˚C to 60 ˚C			
	Humidity	85 % RH Non-Condensing			
Ambient Storage	Temperature	-20 ˚C to 80 ˚C			
	Humidity	85 % RH Non-Condensing			
Protection Degree		IP20			
Installation		DIN RAIL			
Material		ABS-V0			
Size		40 x 90 x 62 mm.		89.5 x 74.6 x 64.5 mm.	
Weigth		120 g.		175 g.	
Option		Configuration via SMW-A (WIFI)			

DIMENSION







A	B
31.2 mm.	51 mm.

DESCRIPTION

- Digital Time Switch with daily and weekly scheduling capabilities.
- OLED Display providing high-visibility and clear readings.
- Configurable ON-OFF control for various electrical devices via keypad.
- Flexible time units programmable in seconds, minutes, hours, days, months, and years.
- Holiday scheduling up to 30 days in advance and 10 vacation/break periods.
- Memory capacity of 99 programs (ON/OFF) and 1 program (Recycle).

OPERATION

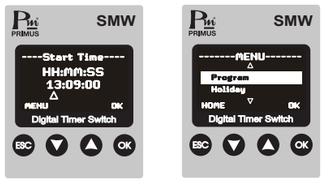
SMW is a digital Time Switch designed for operational scheduling. It is ideally suited for applications requiring precise timing control, allowing users to program the ON/OFF states of electrical devices at specific times or configure them for Recycle Timer operation.

The device supports advance holiday programming for up to 30 days and allows for 10 vacation/break periods. Additionally, the output can be manually controlled via an ON/OFF Manual override. In the event of a power failure, the SMW continues to track time internally, eliminating the need to reset the clock or reprogram settings once power is restored.

The unit features an OLED Display for high visibility, with a power-saving function that automatically turns off the display when the keypad is not in use. Users can also choose between AM/PM or 24-hour time formats.

1	MON	TUE	WED	THU	FRI	SAT	SUN
2	MON	TUE	WED	THU	FRI	SAT	
3	MON	TUE	WED	THU	FRI		
4						SAT	SUN
5					FRI	SAT	SUN
6	MON						
7		TUE					
8			WED				
8				THU			
10					FRI		
11						SAT	
12							SUN

Table 1: Day of the week selection table for output operation

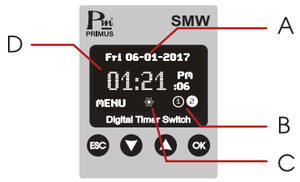


ESC : For entering the menu or returning to the previous screen.

▲ : For scrolling up or increasing a value.

▼ : For scrolling down or decreasing a value.

OK : For proceeding to the next page or confirming a selection.



Example of the Home Screen

A: Displays Day/Month/Year

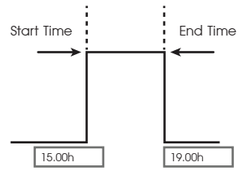
B : Displays the status of each Channel in the bottom right corner, with an identification number inside.

C: Displays status indicators when the current day is set as a Holiday or Summer (Vacation) period

D: Displays the current time in Hours, Minutes, and Seconds (small digits) updating every second; supports both 24 Hours and AM/PM formats

Function

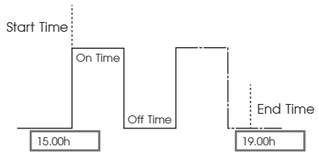
1. ON/OFF Program



Example of ON/OFF Program Operation

- Up to 99 programs per channel.
- Configurable Start Time and End Time in hours, minutes, and seconds.
- Selectable operation days with 12 available modes as per Table 1.
- Independent programming for each channel.
- Program editing available via the EDIT function.
- Program deletion available via the DELETE function.
- Full reset available via the DELETE ALL function.
- Remaining memory display shown as a bar graph after completing new program settings.

2. Recycle Program



Set to 1 program per Channel

- Set 1 program per Channel.
- Configurable Start Time and End Time in hours, minutes, and seconds.
- Configurable On Time and Off Time in hours, minutes, and seconds (Value cannot be set to 0 seconds).
- Selectable operation days with 12 available modes as per Table 1.
- Independent program editing for each Channel.
- Program editing available via the EDIT function.
- Program deletion available via the DELETE function.
- Full reset available via the DELETE ALL function.
- Remaining memory display shown as a bar graph after completing new program settings.

3. Holiday

- Program up to 30 holidays.
- Set Date by Month and Day.
- Edit programs via the EDIT function.
- Delete programs via the DELETE function.
- Delete all programs via the DELETE ALL function.
- Remaining memory capacity displayed as a bar graph after completing new program settings.

4. Summer

- Program up to 10 long vacation periods
- Set Start Date by Month and Day
- Set End Date by Month and Day
- Edit programs via the EDIT function
- Delete programs via the DELETE function
- Delete all programs via the DELETE ALL function
- Remaining memory capacity displayed as a bar graph after completing new program settings

5. Manual



Example of Manual Operation Screen

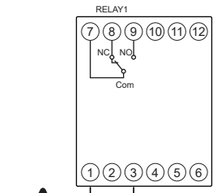
- Relay ON/OFF control: Press the OK button to Toggle the output status. This function is only available when the device is in Manual Mode (MA).
- Auto Mode Restriction: When the device is in Auto Mode (AU), manual ON/OFF control of the relay is disabled.
- Switch between different channels by pressing the Up or Down arrow buttons.

6. Set Date Time

- Set the current date (Day, Month, and Year).
- Set the current time (Hour, Minute, and Second).

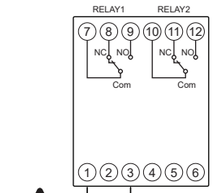
WIRING DIAGRAM

Contact : 10 A/250 V~



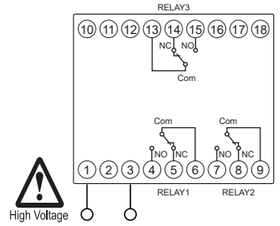
110-240 V~
50-60 Hz

Contact : 10 A/250 V~



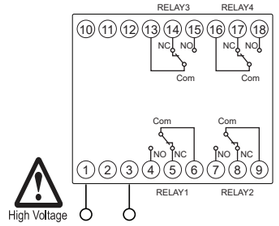
110-240 V~
50-60 Hz

Contact : 5 A/250 V~



110-240 V~
50-60 Hz

Contact : 5 A/250 V~



110-240 V~
50-60 Hz

ORDERING CODE

SMW - [ ] - N1

Channel	
01	1 Channel
02	2 Channel
03	3 Channel
04	4 Channel

SMW-SERIES-N1 DIGITAL TIME SWITCH

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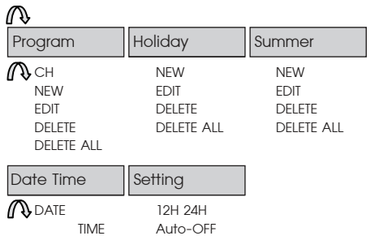
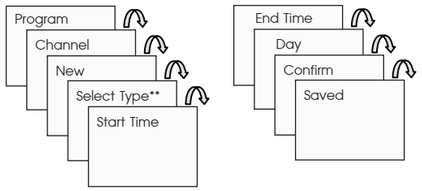
Menu Structure



Create Program ON/OFF



1. Select the Program menu from the main menu selection screen, then press OK.
2. Select the desired Channel by pressing the ▲ ▼ buttons to scroll, then press OK.
3. Select NEW. Note: If an ON/OFF program already exists, skip step 4. If a Recycle program exists, the ON/OFF option cannot be selected; you must delete all existing programs first.
4. On the Select Type screen, select ON/OFF.

Start Time :

5. The first position is for Hours. Press the ▲ ▼ buttons to set the value, then press OK.
6. The next position is for Minutes. Press the ▲ ▼ buttons to set the value, then press OK.
7. The final position is for Seconds. Press the ▲ ▼ buttons to set the value, then press OK.

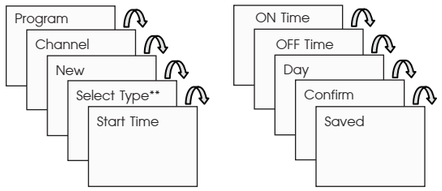
End Time :

8. Set up in the same manner as Start Time.

Select Day :

9. You can choose from 12 different day modes by pressing the ▲ ▼ buttons, then press OK.
10. A confirmation prompt will appear to ensure you want to save the settings. Press the OK button to confirm and save.

Create Program Recycle



1. Select the Program menu from the menu selection screen, then press OK.
2. Select the desired Channel by pressing the ▲ ▼ buttons to scroll, then press OK.
3. Select NEW. Note: If a Recycle program already exists, skip step 4. If an ON/OFF program exists, the Recycle option cannot be selected; you must delete all existing programs first.
4. On the Select Type screen, select Recycle.

Start Time :

5. The first position is for Hours. Press the ▲ ▼ buttons to set the value, then press OK.
6. The next position is for Minutes. Press the ▲ ▼ buttons to set the value, then press OK.
7. The following position is for Seconds. Press the ▲ ▼ buttons to set the value, then press OK.

End Time :

8. Set up in the same manner as Start Time.

ON Time :

9. Set up in the same manner as Start Time (Seconds will start at 1 second).

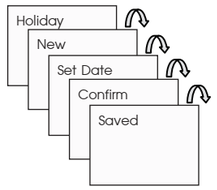
OFF Time :

10. Set up in the same manner as Start Time (Seconds will start at 1 second).

Select Day :

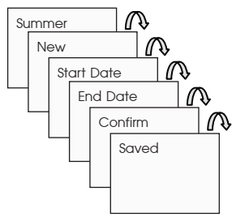
11. Select from 12 available working day schedules by pressing the ▲ ▼ buttons, then press OK.
12. A confirmation prompt will appear to verify if you want to save the settings; press OK to confirm.

Create a Holiday Program



1. Select the Holiday menu from the menu selection screen, then press OK.
2. Select NEW.
3. The first position is for Month. Press the ▲ ▼ buttons to set the value, then press OK.
4. The next position is for Day. Press the ▲ ▼ buttons to set the value, then press OK.
5. A confirmation prompt will appear to verify if you want to save the settings; press OK to confirm.

Create a Summer Program



1. Select the Summer menu from the menu selection screen, then press OK.
2. Select NEW.

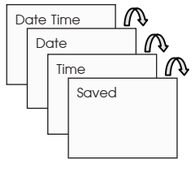
Start Date :

3. The first position is for Month. Press the ▲ ▼ buttons to set the value, then press OK.
4. The next position is for Day. Press the ▲ ▼ buttons to set the value, then press OK.

End Date :

5. The first position is for Month. Press the ▲ ▼ buttons to set the value, then press OK.
6. The next position is for Day. Press the ▲ ▼ buttons to set the value, then press OK.
7. A confirmation prompt will appear to verify if you want to save the settings; press OK to confirm.

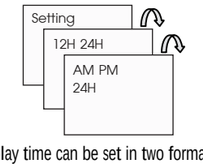
Set Date and Time



1. Select the Date Time menu from the menu selection screen, then press OK.
2. Set the Day, Month, and Year, then press OK.
3. Set the time in Hours, Minutes, and Seconds, then press OK.
4. Successfully Saved.

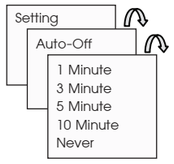
Setting

12H, 24H



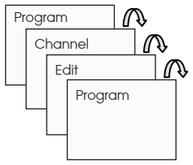
The display time can be set in two formats: AM/PM (12-hour) or 24-hour mode.

Auto Off



The Display Timeout can be set to 1, 3, 5, 10 minutes, or Always On and default setting is 1 minute.

Edit Program





Example of Editing an ON/OFF Program

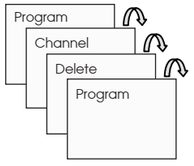
1. Select the Program menu from the menu selection screen, then press OK.
2. Select EDIT.
3. Select the program you wish to modify by pressing the ▲ ▼ buttons. To proceed with the edit, press OK.

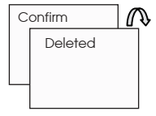


Example of the Program View Screen

4. Modify the desired time settings; the process is the same as setting up a new program.
5. Successfully Saved.

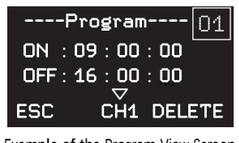
Delete Program





Example of Deleting an ON/OFF Program

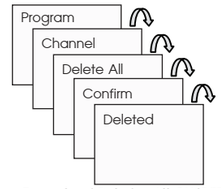
1. Select the Program menu from the menu selection screen, then press OK.
2. Select DELETE.
3. Select the program you wish to delete by pressing the ▲ ▼ buttons. To confirm the deletion, press OK.



Example of the Program View Screen

4. A confirmation prompt will appear to verify if you want to delete; press OK to confirm.
5. Program successfully deleted.

Delete All Program

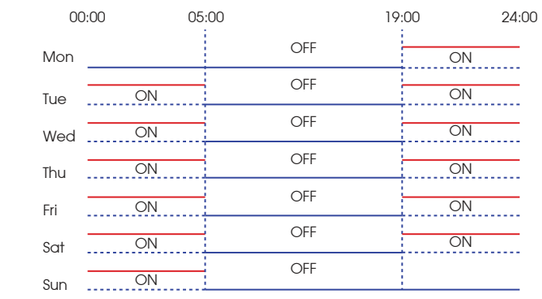


Example of Deleting All ON/OFF Programs

1. Select the Program menu from the menu selection screen, then press OK.
2. Select DELETE ALL.
3. A confirmation prompt will appear to verify if you want to delete; press OK to confirm.
4. Program successfully deleted.

Example of Over-Day (Cross-Day) Setting

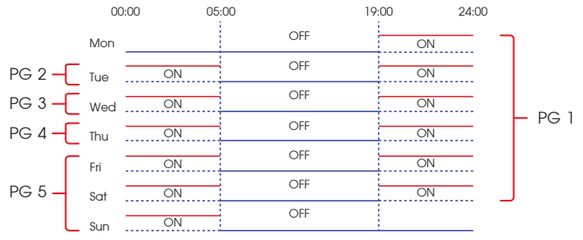
f you want the relay to turn ON at 19:00:00 and turn OFF at 05:00:00, running from Monday to Sunday, where the system turns off at 05:00:00 on Sunday and restarts at 19:00:00 on Monday, follow the settings shown in the image below:



Programming Methods for SMW-Series-N1

Program 1 : On 19:00:00 , Off 00:00:00 , Mon - Sat
Program 2 : On 00:00:00 , Off 05:00:00 , Tue
Program 3 : On 00:00:00 , Off 05:00:00 , Wed
Program 4 : On 00:00:00 , Off 05:00:00 , Thu
Program 5 : On 00:00:00 , Off 05:00:00 , Fri - Sun

*****Operation Schedule: 19:00 - 05:00, Mon - Sun. The operating period for each program is shown below:**



SMW-Series

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