

User Manual

7 DAY PROGRAMMABLE
DIGITAL TIMER
MODEL PS-100



The best solutions for
automation and protection

Description

The PS-100 is a 7 day programmable digital timer switch. Programming can be set for multiple on/off events that automate everyday tasks and reduce utility costs with up to 20 on/off settings per week, it can even set weekday events differently than weekend events. It includes an override button easily accessible in the front of the timer so the output can be turned on/off at any time without affecting the set schedule. Daylight saving time changes are easily adjusted by just pressing a button. Even when the voltage supply fails, the clock is able to maintain the time up to 10 years using an included internal battery. Scheduled events won't be deleted since they are stored in the permanent memory.

It also includes a LED indicator that turns on when the output contact is closed. The PS-100 is dual voltage, it can be used with either 120 or 220VAC.

Features

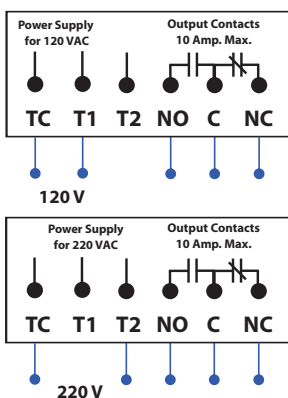
- **Saves energy**
- **20 on/off settings per week**
- **You can set events on weekdays, weekends or daily .**
- **Dual voltage, 120/220VAC .**
- **LED indicator of output status**
- **10-year battery lifetime.**

Wiring

The PS-100 digital timer can be connected to a supply voltage of 120V at terminals TC and T1 or 220V using terminals TC and T2.

The output contact terminals (NC, C and NO) can be used to connect or disconnect any equipment as long as it doesn't exceed the contact current capacity.

Connection with Isolated Contacts

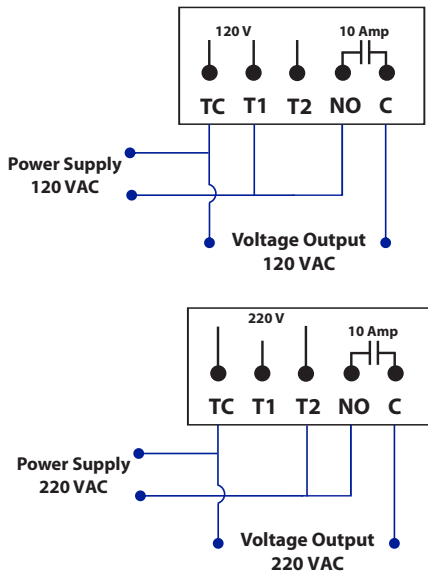


Potentially hazardous voltages are present. Electrical shock can cause death or serious injury. Installation should be done by qualified personnel following all National, State & Local Codes.



BE SURE TO REMOVE ALL POWER SUPPLYING THIS EQUIPMENT BEFORE CONNECTING OR DISCONNECTING THE WIRING. READ THE INSTRUCTIONS BEFORE INSTALLING OR OPERATING THIS DEVICE. KEEP THIS MANUAL FOR FUTURE REFERENCE.

Connection with Voltage Output



Setting the clock

To set the time press the "Prog" button, then press the "Enter" button to enter to the clock setup menu.

SETUP CLOCK
N-Prog Y-Enter

Set the date using the up and down arrow buttons. Once finished press the "Enter" button to set the next adjustment

>> SETUP DAY <<
MON 12:30 PM

To set the hour use the up and down arrows. Press the "Enter" button after finishing to proceed with the minutes setup.

>> SETUP HOUR <<
MON 12:30 PM

Set the minutes using the up and down arrows, then press "Enter" to set between AM or PM.

>> SETUP MIN <<
MON 12:30 PM

Use the up and down arrows to set between AM or PM. Press again the "Enter" button to exit the clock setup. The clock is now set on time.

If the "Prog" button is pressed during set up you will exit the Clock Setup menu.

>> SETUP AM-PM <<
MON 12:30 PM

Language Selection

Press the PROG. and ENTER button simultaneously for more than 5 seconds, the screen will show the language selection setting.

IDIOMA/LANGUAGE
ENGLISH

Use the ARROW UP button to select English or the ARROW DOWN button to select Spanish. Press ENTER again or wait 1 minute to exit and return to the main screen.

Quick time change

The clock can be set forward or set back an hour with out the need of entering the clock setup menu. This feature is useful for DST (Daylight Saving Time) changes.

On the "AUTO" main screen press for more than 2 seconds the upper arrow button to add one hour or the lower arrow button to decrease one hour on the clock.



Selecting the operation mode

The programmable timer has 3 operating modes: automatic (AUTO), manual (MAN), and off (OFF). To switch mode, press the "Auto- OFF- Manual" button.

AUTOMATIC MODE*

The programmable switch follows the programmed schedule.

>> AUTO <<
MON 12:30 PM

MANUAL MODE*

The programmable switch operates as a regular switch and will turn ON the connected equipment.

>> MANUAL <<
MON 12:30 PM

OFF

The programmable switch no longer follows the programmed schedule and turns OFF the connected equipment.

>> OFF <<
MON 12:30 PM

*The green LED indicator turns ON when the output contact between terminals NO-C is closed.

Programming the schedule

To program the schedule press twice the "Prog" button, then press "Enter" to enter the schedule programming menu.

PROG. SCHEDULE
N-Prog Y-Enter

Use the up and down arrow buttons to select the desired event to program. It can be programmed up to 20 different events. Once the event is selected press the "Enter" button to continue.

EVENT # 1 ***
MON 12:30 PM

Use the up and down arrow buttons to select the day on which the program is going to be applied. An individual day or a group of them can be selected, "M->F" means Monday to Friday, "S->S" means Saturday and Sunday, "ALL" means all days. Press the "Enter" button after selecting the day to continue.

EVENT # 1 ***
MON 12:30 PM

Set the event hour using the up and down arrow buttons. Once finished press the "Enter" button to proceed.

EVENT # 1 ***
MON 12:30 PM

Set the minutes using the up and down arrow buttons, then press the "Enter" button to set between AM or PM.

EVENT # 1 ***
MON 12:30 PM

Use the up and down arrows to set the event between AM or PM. Press again the "Enter" button to continue.

EVENT # 1 ***
MON 12:30 PM

To set the event operation use the up and down arrow buttons, "ON" to turn on the equipment by closing the output contact, "OFF" to turn off the equipment by opening the output contact. When the event operation indicates "***" the event is disabled (it neither closes or opens the output contact). Press the "Enter" button to continue, when finished press the "Prog" button to exit.

EVENT # 1 ON
MON 12:30 PM

If the "Prog" button is pressed during the event programming, it will exit the schedule programming menu and return to the home screen.

All events shall be programmed on a consecutive basis. The first should be "ON" (to connect), then the next event should be "OFF" (to disconnect).

Clear all the programmed events

The events are stored in the memory and are not erased even if the programmer is not powered.

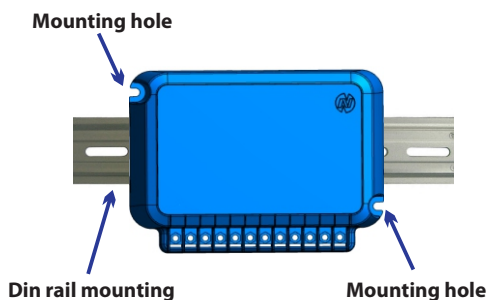
To erase all programmed events, simultaneously press both arrow buttons in the Schedule Programming menu.



Mounting options & Dimensions

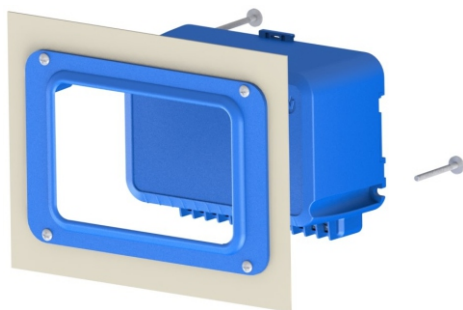
This unit can be mounted on a standard 35 mm DIN rail or screwed into a surface using the screws included in the package.

Enclosure Dimensions: 5.7 x 4.1 x 2.4 in



Panel mounting

Panel mounting for this equipment is available using the adapter plate model **PMF-237** (sold separately). Mounting on a panel door allows to visualize the LED indicators, it also makes setup adjustments easier. If this unit is panel mounted, the panel needs to be installed **indoors**.



Specifications

INPUT VOLTAGE	120/220 VAC 50/60 Hz.
EVENT ADJUSTMENT	1 minute resolution.
CONTACT CAPACITY	10 Amp. Resistive @ 220 VAC Max.
CONTACT LIFETIME	500,000 Nominal Capacity Operations.
PROGRAM MEMORY	20 Events
ACCURACY	± 2 Sec./day at 25 °C (77 °F)
CONSUMPTION	3 Watts Approximately
LITHIUM BATTERY LIFE	10 years 25° C (77 °F)
OPERATION TEMPERATURE	14 to 122° F (-10 to 50 °C).
STORAGE TEMPERATURE	-4 to 158 °F (-20 to 70 °C).
WEIGHT INCLUDING PACKAGING	295 Grams (12.3 oz.)

*Specifications subject to change without notice.

Warranty

These products are warranted to be free from defects in workmanship or material under normal service and use for a period of three (3) years from date of manufacture. Nassar Electronics shall, at its option, repair or replace F.O.B. point of manufacture the portion of the product found by Nassar Electronics to be defective. All replacements or repairs necessitated by inadequate maintenance, normal wear and usage, unsuitable power sources or environmental conditions, accident, misuse, improper installation, modification, repair, use of unauthorized replacement parts, storage or handling, or any other cause not the fault of Nassar Electronics are not covered by this limited warranty, and shall be at the buyer's expense. All costs of dismantling, reinstallation and freight, and the time and expenses shall be borne by the buyer.

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