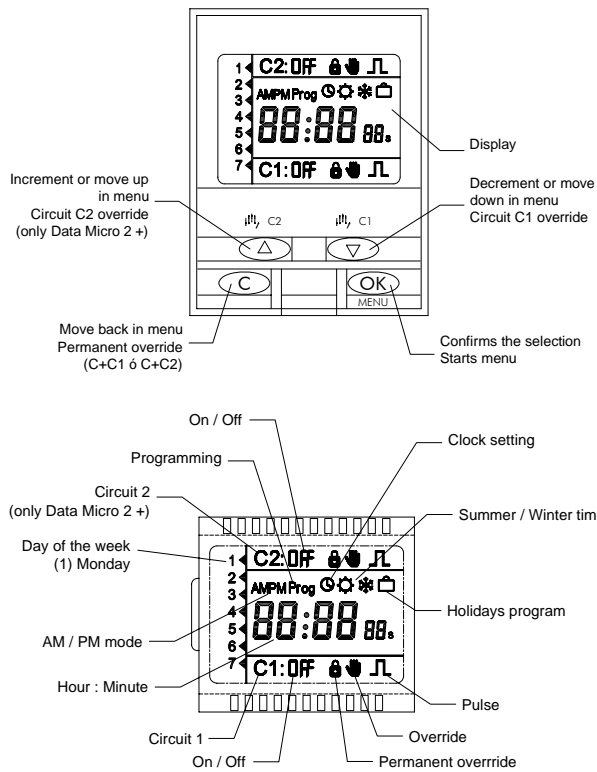


OPERATING INSTRUCTIONS



DESCRIPTION

DATA MICRO + is a time switch designed to control any electrical installation. Includes pulse programming from 1 to 59 seconds and up to 32 block memory spaces. Automatic Winter – Summer official time adjustment.

INSTALLATION

ATTENTION: Electrical devices must be installed and assembled by authorized installer.

VERY IMPORTANT: This time switch is protected internally against interference by a safety device. However, particularly strong electromagnetic fields may alter its operation. Such interference can be avoided by adhering to the following recommendations during installation:

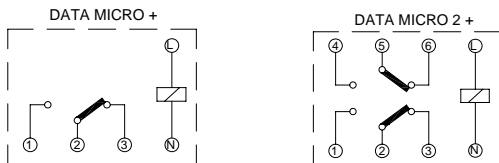
- The device should not be installed near inductive loads (motors, transformers, contactors, etc)
- A separate power line is recommended (equipped with a network filter if necessary)
- Inductive loads should be equipped with interference suppressors (varistor, RC filter)

If the time switch is to be used in combination with other devices in an installation, it is necessary to verify that no parasitic disturbances will be caused by the group.

MOUNTING: Automatic control independent mounting in cabinets provided with 35 mm simetric rail in accordance with EN 60175.

CONNECTION:

Connect according with the following schema:



STARTING UP AND PROGRAMMING

DATA MICRO + is already programmed with current date and time, and with the official automatic Winter – Summer official time adjustment activated (last Sunday in March and last Sunday in October).

Programming is based in menus (indicated by icons):

Programming: "PROG".

Clock setting: "☉".

Winter / Summer official time change: "⚙️ ⚙️".

Holidays period programming: "📅".

RESET

Although the clock of the device is already programmed, if a RESET is needed (blank display, inconsistent data, etc), press at the same time the four keys during 3 seconds. In this moment, the device loses all data and goes to clock setting mode, directly to program year, month, day, day of the week, hour and minutes.

CLOCK SETTING

For clock setting, press key "OK" to access to the Menu and with keys (Δ) and (∇) select icon (☉) and press "OK". Display shows the year with the last two figures blinking; update the year by pressing keys (Δ) and (∇) and validate it with key "OK". The same operation should be made to update month, day, day of the week, hour and minutes. By accepting minutes with "OK", it automatically goes to normal mode.

To change the time mode (24 h / 12 h am-pm) proceed as follows: accept year, month, day and day of the week; while hour is blinking, press (Δ) and (∇) at the same time. After that, the time mode has change.

PROGRAMMING

To program the device, press "OK" to enter to the menu. By pressing again "OK" the menu "PROG" is entered and the display shows the first programmed switching. If no switching is programmed then - - - is shown. To program or edit the desired switching press "OK" again, with keys (Δ) and (∇) select the circuit and type of switching: C1 OFF, C1 ON (⌋), (C2 OFF, C2 ON, C2 ON (⌋ only in model DATA MICRO 2). Validate with "OK" and introduce hour and minutes desired, validating then with "OK". Then select the days of the week that the switching has to operate. With keys (Δ) and (∇) place the blinking cursor on the first day of the week that the switching has to operate and then fix it by pressing "OK". Repeat this sequence with the other days of the week when the switching has to operate. For the days not desired, press (∇) to go down to the next day. After programming all the days of the week, the display will show the next switching to program.

SHORT TIME SWITCHING (PULSE) PROGRAMMING

If the selected switching is a Pulse (⌋), after introducing hour and minutes when the pulse starts, use keys (Δ) and (∇) to program the length of the pulse (from 1 to 59 seconds). This length is shown in the digits of seconds (situated at the right side and smaller than the digits of hours and minutes). Select the day(s) of the week when the switching has to be programmed and validate with "OK". After that, press "C" to come back to normal mode. If "C" is not pressed, being in any mode, after two minutes, the device returns to normal mode.

VIEWING PROGRAMMED SWITCHING

The programmed switching can be checked by entering again in menu "PROG"; pressing key (Δ) all the switching are shown in display, and after the last one, the display shows - - - , if there is any free space and then it shows the number of free spaces.

EDITING OR DELETING SWITCHING

Programmed switching can be edited or deleted in menu "PROG", selecting with keys (Δ) or (∇) the switching to be edited or deleted. To edit it, proceed as in clause PROGRAMMING and to delete it, keep pressing key "OK" and then press key "C". To delete all the switching without using RESET, go to the point where the display shows the free spaces of memory, keep pressing key "OK" and then press key "C". The display will show 32, the total free memory spaces.

MANUAL OVERRIDE

In normal mode, pressing key ∇ (🔒 C1), circuit C1 is activated or deactivated. The same for circuit C2 by using key Δ (🔒 C2) (only in DATA MICRO 2+).

If any manual override is executed, it is represented in display by symbol (🔒). The next programmed switching cancels the manual override and the symbol (🔒) disappear from the display.

PERMANENT OVERRIDE

This option blocks all the programmed switching. In normal mode, keep pressing key "C" and then press key ∇ (🔒 C1) to activate the permanent position of circuit; this situation is indicated in display with symbol (🔒). After that, the state of the circuit can be changed by pressing key ∇ (🔒 C1).

To cancel permanent override keep pressing key "C" and then press key ∇ (🔒 C1), symbol (🔒) disappear from display. The same for circuit C2 using key Δ (🔒 C2), only in DATA MICRO 2+.

WINTER / SUMMER OFFICIAL TIME CHANGE

Enter "menu" by pressing key "OK"; select option (⚙️ ⚙️) using keys (Δ) and (∇), validate with "OK". There are the three following working modes:

AUTO: The clock is automatically changed on the last Sunday in March at 02:00 and the last Sunday in October at 03:00.

PRO: Allows to choose the date and time for the time change, programming first the Winter – Summer change (⚙️) and then the Summer – Winter change (⚙️).
OFF: No time change will be made

HOLIDAY PROGRAM

This function allows to deactivate the circuits during a period of time up to 99 days. After that, the programming continues as usual.

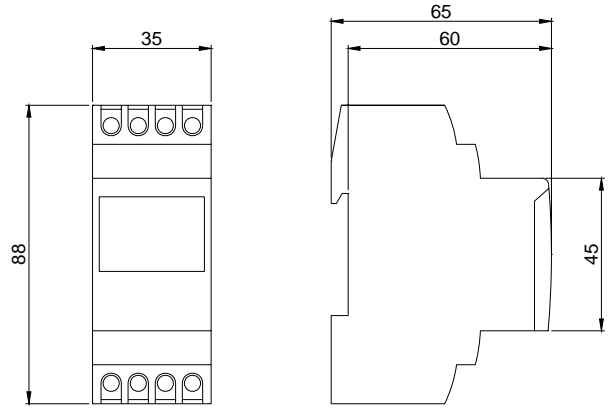
If user validates 0 days, the holiday period is cancelled and the device will work in a normal way. If user validates a number o days different than 0, the device starts immediately, so relays switch to OFF and programmed switching will not execute. If the validated number of days is 1, the holiday period will finish at 23:59:59 of the same day than validation. If the validation number of days is 2, the holiday period will finish next day. And so on.

Display shows symbol (📅) during the holiday period.

TECHNICAL FEATURES

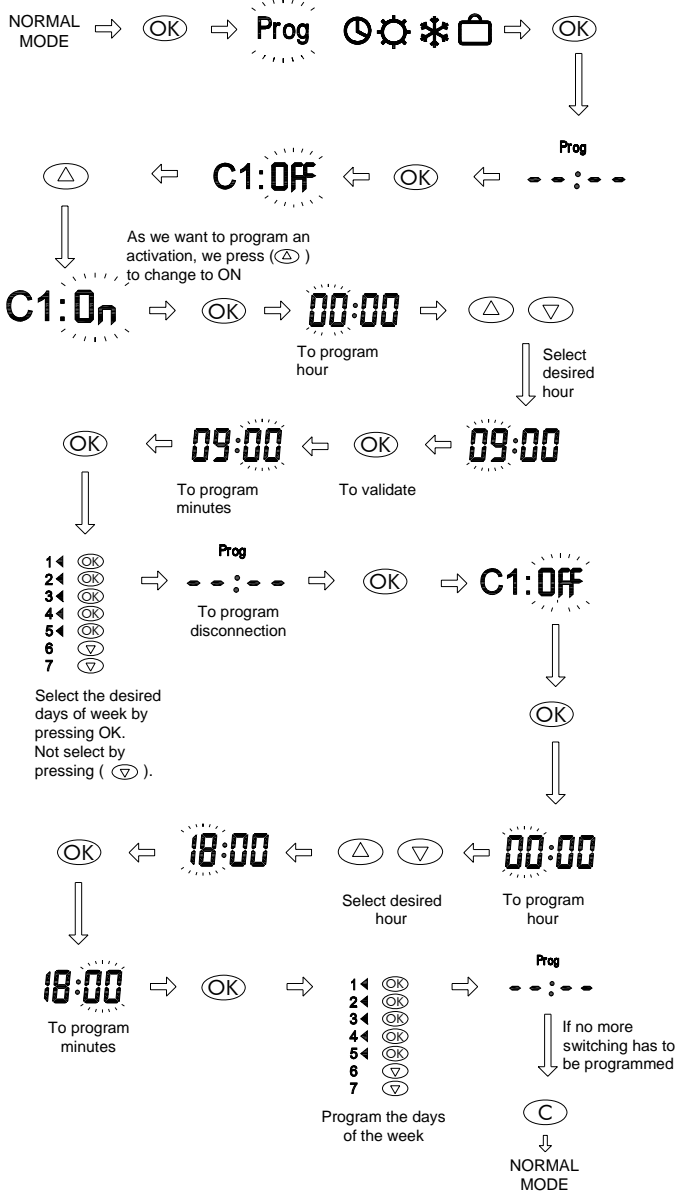
Power supply:	As indicated on the device
Switching capacity:	16 (10) A / 250 V
Maximum recommended loads:	
<ul style="list-style-type: none"> Incandescent lamps: 3000 W Uncompensated fluorescent lamps: 1200 W Compensated fluorescent lamps: 1200 W 150 µF Low voltage halogen lamps: 1000 VA Halogens (230 V): 2500 W Low-consumption lamps: 200 W 	
Contact type and material:	Changeover AgSnO ₂
Power consumption:	6 VA 1 circuit (aprox. 1 W)
Action type:	1B, 1S, 1T and 1U
Memory spaces:	32
Type of switchings:	ON OFF PULSE (from 1 to 59 s)
Switching accuracy:	Better than 1 second
Operating accuracy:	≤ ± 1 s/ day at 23 °C
Power reserve:	4 years (Lithium battery) at 23 °C
Operating temperature:	- 10 °C to + 45 °C
Protection category:	IP 20 according to EN 60529
Protection class:	II according to EN 60335 when mounted as intended
Pollution situation:	Normal
Sealable cover:	

DIMENSIONS



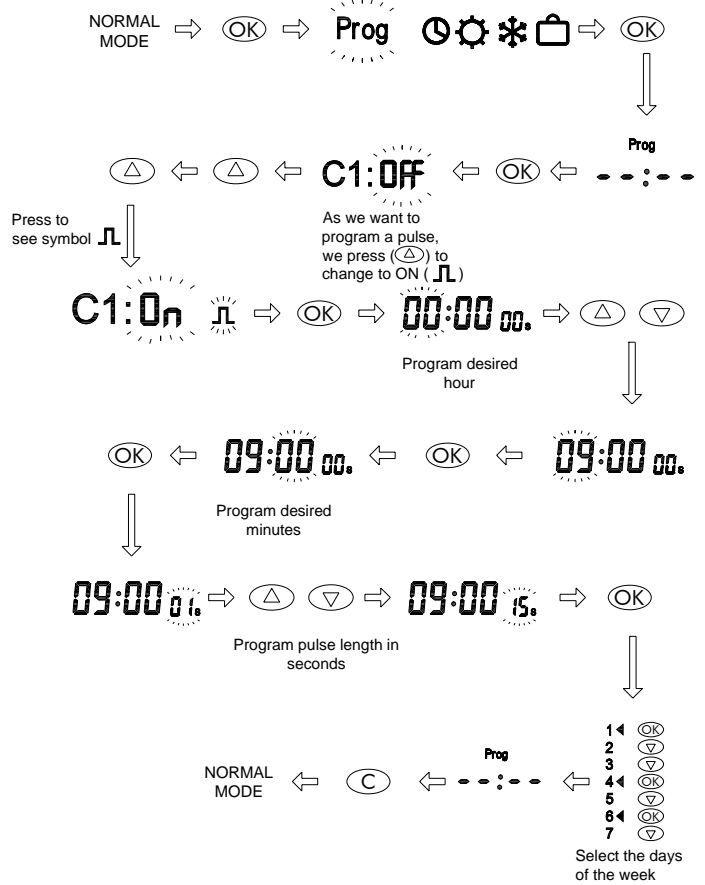
PROGRAMMING EXAMPLE

We want to connect a load from 09:00 to 18:00 from Monday to Friday. (It is considered that there are no other programming).



PULSE PROGRAMMING EXAMPLE

We want to connect a bell at 09:00 for 15 seconds at Monday, Thursday and Saturday.



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