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 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 semicircular rail in accordance with EN 607175.

**CONNECTION:**

Connect according to the following schematics:

**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 on menus (indicated by icons):

- **DATA MICRO +**: Programming: “PROG”.
- **DATA MICRO 2 +**: 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. 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 circuit. If no programming is selected 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 introdue 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 “C” 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, uses 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 to back to normal mode. If “C” is not pressed, being in any mode, 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 ( ∆ C2) (1 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 ( ∆ C1), then press key ( ∆ C2) 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 ( ∆ C2), only in DATA MICRO 2 +.

**WINTER / SUMMER OFFICIAL TIME CHANGE**

Enter “menu” by pressing key “OK”, select option ( ) and press 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 al 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 96 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 of days different than 0, the device shows 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.

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
16 (10) A / 250 V

Switching capacity:
3000 W
1200 W
1200 W 150 μF
1000 VA
2500 W
200 W

Maximum recommended loads:
- Incandescent lamps: 3000 W
- Uncompensated fluorescent lamps:
- Compensated fluorescent lamps:
- Low voltage halogen lamps:
- Low-consumption lamps:
- Halogen (230 V)
- Compensated fluorescent lamps 1200 W
- 150 μF
- Low voltage halogen lamps 1000 VA
- Halogen (230 V) 2500 W
- Low-consumption lamps 200 W
- Changeover AgSnO
- 6 VA 1 circuit (approx. 1 W)

Contact type and material
Power consumption:
Action type:
Memory spaces:
Type of switchings:

Switching accuracy:
Operating accuracy:
Power reserve:
Operating temperature:
Protection category:
Protection class:
Pollution situation:
Sealable cover

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).

NORMAL MODE → OK → Prog → C1: Off → OK

As we want to program an activation, we press ( ) to change to ON.

C1: On → OK → 09:00 → OK

Select desired hour
To program

To program

OK

Select desired
minute

OK

Press to see symbol

As we want to program a pulse, we press ( ) to change to ON.

C1: Off → OK → 09:00 → C1: Off

Program desired hour

Program desired minutes

Program pulse length in seconds

NORMAL MODE → C → Prog

Select the days of the week.

Reprogramming Service

Call 1800 220 110 or Email john@alltime.com.au for any written and graphic detailed instructions, that are easy to follow at $44 per service.