



This electronic module (plug and play in our sockets SQ and SM) can be programmed to control the relay that is connected in the socket and work according with the program working in many ways.

It allows that one standard relay works like an output miniPLC with a wide range of current and voltages.

Reference

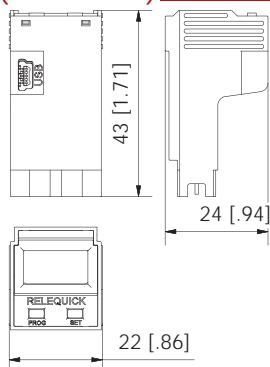
Reference	Type
MQPMM (easy control)	plugin timer module

Functions

The MQPMM has different functions easy to program:

- Timing functions: simple or cycles.
 - Counter: simple or cycles.
 - External signal: timing or counting according with the program.
- For more information look at the pages 49 and 50.

Dimensions (mm-inch)



Uses and applications

Switching and programming the module in our socket, you get more advantages in your applications.

Example: you can have a timer and a counter for resistive or inductive charges with a relay output 230VAC, 16A only switching our MQPMM in the SQ socket with the adequate relay.

Accessories

- It is necessary to program, use the cable ref: CPCD01.
- Interface MMA10 to use the MQPMM in the socket SM.



Features

This module has 21 programmable functions, the timing range is from 0,1 second to 999 hours and a counting capacity until 999 cycles with high precision.

It can be used with different relay models because the MQPMM has a wide range of charges (24-230VAC, 12-115VDC). The LCD allows to see the program status and the relay activity.

Our free software "DEVICES PROGRAMMER"* allows to make a chain of time and count in a very easy way.

It is possible to program the MQPMM with the buttons without the PC.

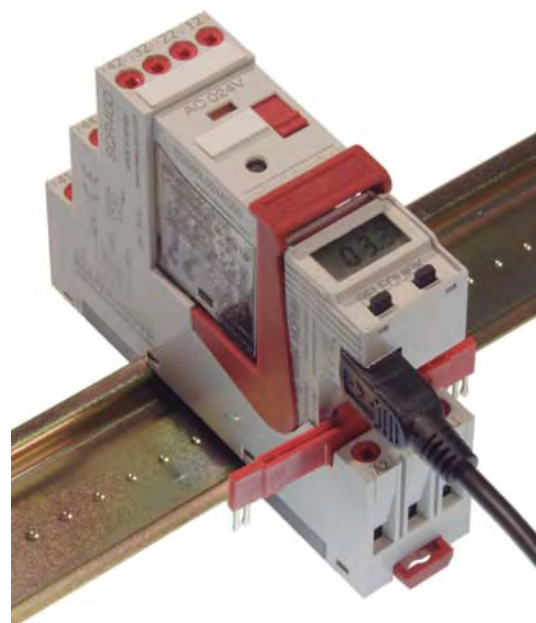
The B connection in the socket allows a external signal, from a PC, sensor, push button etc... allowing to change the relay status.

Nominal values

Supply voltage (U)	VAC (50 / 60 Hz) VDC	24 - 230 12 - 115
Timing range	0,1seconds - 999 hours	
Counter range	1 - 1000000	
Timing precision	± 0.05 % of set time	
Repeatability	± 0.01 % of set time	
Reestablishment time	≥ 300 ms	
Minimum B signal duration	≥ 23 ms (VDC) - 50 ms (VAC)	
Maximum counter frequency	21Hz (VDC)-10 Hz (VAC) (125 Hz under request)	
Indicator(LCD)	program mode and relay output state	

Specifications

Room temperature	Working T° Storage T°	-10° C to 60° C -20° C to 60° C
Room humidity	5% to 85 %	
Supply frequency (AC)	50 - 60 Hz	
Nominal power AC/DC (W)	0.1 W (12 VDC) - 0.5 W (115 VDC)	
Mounting	Interface in SQ series and SM series sockets	
Dimensions	43,5x24x21,8mm	
Weight	11gr	
CE - marking	Yes	
Protection class	IP20	
Pack Units	1	





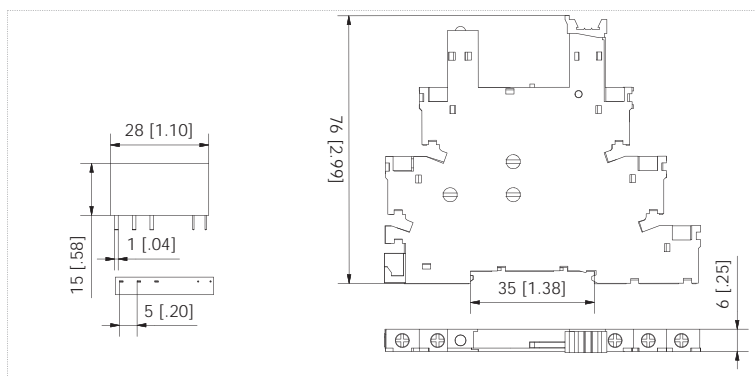
the electronic programmable module has been specifically designed for timing and controlling 5,08 mm PCB relays. The module can be mounted on a DIN-rail and thanks to its 6,22 mm width and compact design it will take up minimum space on any control panel.

With its 6 different functions and the wide timing range available (from 0,05 seconds to 10 hours) the module offers great control versatility within a reduced space.

Functions

Function	Diagram
On delay (switch-on delay)	
On pulse (switch-off delay)	
Fixed pulse	
Symmetrical cycle (start ON)	
Symmetrical cycle (start OFF)	
Asymmetrical cycle (start ON)	

Dimensions (mm-inch)



Features

Programmable multi function electronic device. Up to 6 functions can be configured with 3 trimmers and using 6 different time scales:

- [0,05 - 1] [0,5 - 10] [5 - 100] seconds
- [0,5 - 10] [5 - 100] minutes
- [0,5 - 10] hours

Compact design (6,22 mm), easy mounting and wiring.

SPDT 1-relay output with switching capacity of 6A.

Rail DIM 35mm (T35).

Timing range: 0,05 seconds to 10 hours.

LED indication of relay excitation.

One model covers the whole tension range 12 - 24AC/DC.

Easy programming: This timer can be programmed using a lower scale to adjust their values better. Once the value is programmed, the scale can be changed to the adequate level to be used in operating mode.

Numbering identification label relay.

Retaining clip relay, Anti Shake.

Nominal values

Supply voltage	from 0,8 to 1,1Un (12-24 VAC/DC)
Rated power	0,5W
Programming timing range	0,05 seconds to 10 hours
Operation time	0,01 seconds
Timing precision	± 1% of set time
Indicators	Relay excited Green LED
Output relay	1 SPDT relay with 6A switching capacity (AC1 / 250 V - DC1 / 30V)
Breaking capacity	6/0,2/0,15 (DC1 30/110/220V)

Uses and applications

It is often useful in all kind of systems, from industrial applications and buildings. With our programmable timer module it is possible to adjust how the system must work, and it's different programmable functions make it useful in a wide range of possible environments.

Specifications

Room temperature	Working T°	-10° C to 60° C
	Storage T°	-20° C to 70° C
Room humidity	5% to 85 %	
Supply frequency (AC)	50 - 60 Hz	
Output relay	Resistive load	6A at 250VAC (cosφ = 1) 6A at 30VDC (L/R = 0 ms)
	Inductive load	1A at 250VAC (cosφ = 0.4) 1A at 30VDC (L/R = 7 ms)
	Electrical life	≥10 ⁴ cycles
	Mechanical life	≥10 ⁷ cycles
Max. screw torque	0.6Nm	
Mounting	DIN-rail	
Dimensions	6,22 x 90 x 76 mm	
Weight	23 gr	
CE - marking	Yes	
Protection class	IP20	
Pack Unit	20	

This timer can be used with 12VDC and 24VDC relays.