C-mac

Perry timer type 1RT 200/MT/MF

Programmable multifunction timer

Time ranges from 0.1 sec. to 99:59 hours

14 programmable functions

1-pole relay output

Universal supply voltage 11-253 VAC/DC

17.5 mm wide, 90 mm high, 60 mm deep

Made in accordance with the CE and EMC regulations

This timer has 14 programmable functions:
5 simple timer functions, controlled by the supply voltage and 7 functions controlled by separate control input.
The timer is programmed directly on the front, and the LCD display will indicate the function and time during programming and operation.

Technical data:

Supply voltage:	15-253 VAC/DC
Isolation voltage:	Supply - output: 2.5 kV
Power consumption:	max 3 VA
Operation temp.:	-5°C to +50°C
Max. load, relay:	1-pole 8 A - 250 VAC ohmic load

Approvals: The unit is produced in accordance with the CE and low voltage regulations.
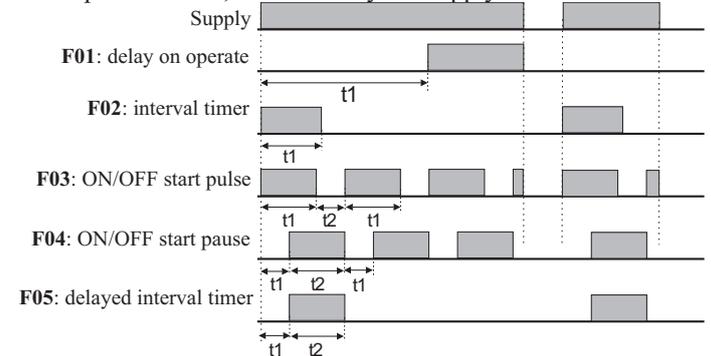
Functions and connections

Relay, NO contact	18 / 15	Relay, common
Common, start and reset	X / 16	Relay, NC
	F88 T₁ T₂ display	Multifunction display, see below
Master reset	RESET	Relay status LED
Prog., function	MODE / +	+/up button
Prog.,OK / stop time	OK / -	-/down button
Reset input	R	Start input (S)
Supply voltage (+)	A1	Supply voltage (-) (A2)

Display functions

Timer function	$F88\,T_1\,T_2$	Timer 1/ timer 2
Status start input		Timer in operation
Selected / aktual time	88:88	
Scale, time	h m s d X100	Special for total time

Timer functions

1: Simple functions, controlled by the supply

Supply

F01: delay on operate — t1

F02: interval timer — t1

F03: ON/OFF start pulse — t1 t2 t1

F04: ON/OFF start pause — t1 t2 t1

F05: delayed interval timer — t1 t2

2: Delay on release, controlled by start input

Supply

Start input

F06 — t1 / t1 t1

F07 — t1 / t1

F08 — t1 / t1
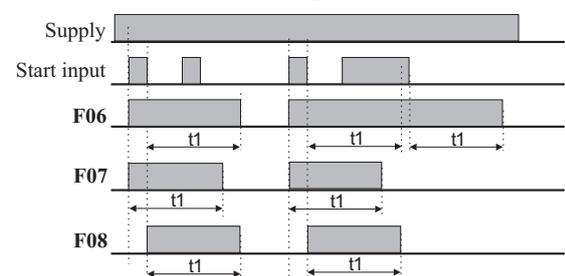
3: Delay on and interval, controlled by start input

Supply

Start input

F09 — t1 t2 t1 t2

F10 — t1 t1 t1 t1 t1 t1

F11 — t1 t1 t1
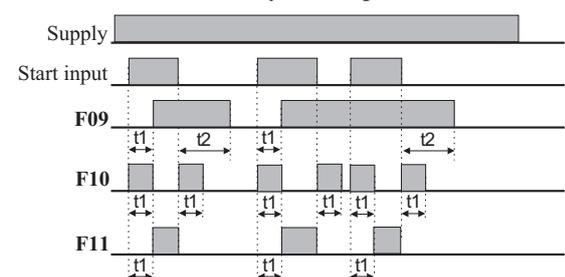
4: Special functions, controlled by start input and supply

Supply

Start input

F12 — P1 P2

F13 — t1+P1+P2 / t1

F14 — t1+P1+P2 / t1 — t1 t1
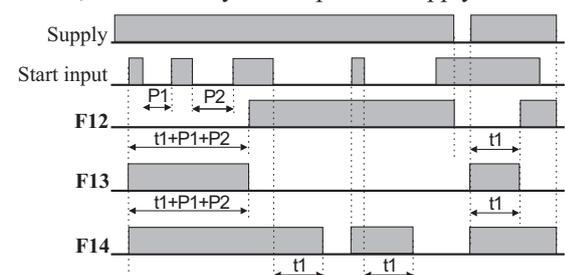
Programming:

The first time the timer is connected, it will perform an automatic test function, and then it changes to *selection of function*

In selection of function, F01 will flash and T1 is on.

Selection of function:
Press + and/or- buttons to select the wanted function.
When you change function the T1, T2 and symbol for start input will go on, if they are used in the selectedfunction.
The selected function is confirmed by pressing the OK button, and then the timer changes to the next step, selection of timing range, this is indicated by flashing of the h, m, s and d indications.

Selection of timing range:
The wanted range is selected by pressing the MODE button.
You can select the following ranges:

	Scale	Adj. range
h	hours	from 1 to 99 hours
hm	hours - minutes	from 0 h 1 m to 99 h 59 m
m	minutes	from 1 to 59 minutes
ms	minutes - seconds	from 0 m 1 s to 59 m 59 s
s	seconds	from 1 to 59 seconds
sd	seconds - tenths of sec.	from 0 s 1d to 59 s 9 d
d	tenths of seconds	from 1 to 9 tenths

The wanted range is confirmed by pressing the OK button, and then the timer changes to selection of time, indicated by flashing of the 4 time digits.

Selection of time:
Set the T1 time with the + and - buttons and confirm by pressing the OK button. If the selected function only uses T1, the programming is finished and the digits will stop flashing.
If T2 is also used in the selected function, the T2 indication goes on and the selected time for T1 is shown on the display.
If you want the same time for T2, you press the OK button, and the programming is finished.
If you want a different time you press the MODE button, and then you can repeat selection of range and time, as for T1, and the programming is finished by pressing the OK button.

Mofidy programming data:

If you want to change the programming, you press the MODE button for 5 seconds, and the timer will start in selection of function.
Then you enter the wanted data as described above.
If the function is changed, all following data must be selected again, but if you only want to change f.inst. a time range, you press the OK button, until you come to the wanted function, and then you can change the selected range.

Note:
When the timer is put in programming mode, all ongoing operations are cancelled, and the relay releases.

Normal function:

When the timer is in operation but not activated, the following is shown on the display:
Aktual funkction number
Status start input (if it is used in the actualk function)
Selected time range and value for timer 1.
If the function uses both T1 and T2, both T1 and T2 will be activated if the selected time is the same, otherwise the display changes every 5 second, showing the value for T1 and T2.

When the timer is activated the function number will be flashing, T1 or T2 is active, the "clock" for timing function is active, the display indicated the remaining time, and the decimal point is flashing.
Furthermore the LED for relay status is on, if the relay is activated.

Total counter:

The timer is supplied with a total counter, indicating the total amount of hours, the relay has been activated, this is indicated by pressing the OK button for 5 seconds.
The display will then indicate the actual value in hours.
If the value is higher than 9999 hours, the X100 indication is activated and the display will then show the amount of hours divided with 100.
After 10 seconds the timer returns to normal indication.
Reset of hours counter.
If you want to reset the hours counter you press the OK botton once again for 5 seconds when the timer ishows the total counter.

Master reset:

If the timer is not correct you can reset it by activated the hidden reset button with a paper clips.
This function will reset the internar processor, but it will not erase the programmed data.

Connection diagram

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