



Relcross Ltd, Hambleton Avenue, Devizes, Wiltshire, SN10 2RT
Tel: 01380 729 600 Fax:01380 729 888
Web: www.relcross.co.uk E-mail: sales@relcross.co.uk

Relcross Seven Day Timer

Warning: This is a low voltage device Maximum permissible voltage to relay contacts is 40 volts AC/DC.

General features:

- 10 ON/OFF programs with 1 minute step.
- Output relay red and power on green LED indicators.
- Display with second.
- MANUAL ON/AUTO/MANUAL OFF selectable.
- Random function with a random advance of 10-31 minutes between 6:00 PM and 6:00 AM. .mode s
- Input voltage polarity protection
- Voltage free relay change over contacts
- Summer time function available.
- 16 combinations of individual day or blocks of days available as follows:

Single day of the week, ie:

MO TU WE TH FR SA SU

Or groups of days in a week ie

MO, TU, WE, TH, FR, SA, SU

MO, TU, WE, TH, FR

SA, SU

MO, TU, WE, TH, FR, SA

MO, WE, FR

TU, TH, SA

MO, TU, WE

TH, FR, SA

MO, WE, FR, SU.

Initial operation

- Connect the DC supply & apply power to the timer
- Remove & change over the black link on PCB (located lower right) connecting the lower two pins (off) to connect the upper two pins (on) . This will connect the rechargeable battery – the off position prevents it discharging see picture P3.
- Clear all current information by pressing **MASTER CLEAR** button with a sharp object such as a ballpoint pen or a pencil tip.
- The LCD display should now show 88:88 If the display is blank, allow the back-up battery time to charge.
- When the display appears, the timer is now ready to be set up for use.

Setting current time.

- Press CLOCK button and hold, simultaneously press WEEK button until the actual day is displayed. Continue by pressing HOUR or MIN button until the current hour or minute is displayed. When setting, the buttons WEEK, HOUR or MIN can be held down for rapid forward counting.
- Release both buttons. The week and time will be set.
- To reset incorrect time, repeat above steps.



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Setting desired programs

Note: When verifying your programs ensure they are sequential & do not overlap, especially when using the block option. If there are program settings overlapping, the timer ON or OFF will be executed according to program time, not by program number. Program OFF has the priority over program ON.

- Press TIMER button and release. LCD shows ON _1. The first ON setting can be made now.
- Press WEEK button to set the day or block of days. Set the time by pressing HOUR and MIN button.
- Press TIMER button again to finish the first ON setting and enter into the first OFF setting. LCD shows OFF_1. By repeating 2 to make the first OFF setting.
- Press TIMER button again to finish the first OFF setting and enter into the 2nd ON setting. Repeat 2 and 3 to program remaining settings. Press TIMER button and hold for 2 seconds to enter fast advance.
- After completing settings, press CLOCK button. The timer is ready to operate.

Example:

Desired settings: on at 17:15 and off at 22:30 Monday to Friday

Press TIMER once. LCD displays ON _1 (or repeat to desired program number)

Press WEEK till LCD displays "MO,TU,WE,TH,FR "

Press HOUR till LCD displays 5:OOPM or 17:00

Press MIN till LCD displays 5:15PM or 17:15

Press TIMER again and release. LCD displays OFF _1

Repeat the above b., c. and d. until LCD displays O,TU,WE,TH,FR 10:30PM or 22:30

Manual ON/AUTO/Manual OFF setting

- Operating modes cannot be changed during program settings.
- Press ON/AUTO/OFF button to revert the three modes in turn.
- The programs can only be executed in AUTO mode. When AUTO is selected, the timer operates as the programs. In MANUAL ON or MANUAL OFF mode all programs are ignored and the timer doesn't operate. When MANUAL ON mode is selected, power output is always ON. When MANUAL OFF mode is selected, power output is permanently off.
- When the mode is turned from MANUAL ON to AUTO, the timer will keep the setting of MANUAL ON until to the next timer setting:

Random Function

- Press RANDOM button LCD displays R & RANDOM function is activated.
- When this function is ON the settings will be executed with a random advance of 10-31 minutes between 6:00 PM and 6:00 AM.
- Press the RANDOM button again to cancel this function. Random function can't be set during program settings.
- The RANDOM function can only be executed in AUTO mode between 6:OOPM and 6:OOAM.

12/24 Hour Mode

Press CLOCK and TIMER simultaneously to turn the time display between 12 and 24 hour mode.

Summertime Function

- Press CLOCK and ON/AUTO/OFF simultaneously. LCD shows , : (Summer time). Clock advances 1 hour.
- To revert to winter setting, press the two buttons again. Clock moves backward 1 hour. 3 disappears in LCD.

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Keyboard switch definitions

MASTER CLEAR	Clear all data in memory including current time and all programs.
RANDOM	Set or cancel random function.
CLOCK	Set current time with buttons WEEK, HOUR, select 12 or 24 hour mode combined with button TIMER. Activate summertime function combined with button ON/AUTO/OFF
TIMER	Set programs combined with buttons WEEK, HOUR, MIN, select 12 or 24 hour mode combined with button CLOCK
ON/AUTO/OFF	Select operating modes of timer
WEEK	Set week combined with button CLOCK or TIMER
HOUR	Set hour combined with button CLOCK or TIMER
MIN	Set minute combined with button CLOCK or TIMER
RST/RCL	Override programs or recall the overridden programs
LED	Shows status of power output. When the red indicator is ON, the relay contacts change over. When the indicator is OFF, the relay is not powered

Specifications

Supply Voltage	10.5 to 30 volts DC
Maximum relay load and voltage	10 amperes breaking, 40 volts
Minimum setting time	1 minute
Operating temperature	-10°C to +40°C
Accuracy	+/- 1 minute per month
Battery backup	1.2 volt NiMH
Battery life - power off	> 100 hours
Dimensions	90mm W * 40mm D * 32mm H

Actual size

