

2-channel Programmable Timer CT12

- ◆ 2 programmable timers in one case
- ◆ Up to 2 freely programmable relay outputs
- ◆ Up to 10 programmable periods per channel
- ◆ 2 programs or 1 longer one
- ◆ 4-digit LED display
- ◆ Start from external input or from keyboard
- ◆ Maximum time per period 9999 minutes

CT12 is a programmable device for timing control incorporating 2 independent timers in one case. Two relay outputs (one per channel) control electrical actuators by switching them on and off. A time sequence that may consist of up to 10 ON or OFF periods, each with different duration, may be programmed for each output (channel). The device may be used as a single channel timer with up to 20 period time sequence. After a start command from the featured external input or the front-panel keyboard, the time sequence may be run once or repeated endlessly. A 4-digit digital display indicates current time and – during programming – parameter values, and the keyboard enables setting of all modes and parameters of time sequence. The CT12 timer is easy to program and – with its rich set of features – widely applicable.



Technical specifications

Inputs

Passive contact input	NO contacts
Active signal input	voltage, max. 40 VDC
External 'Start/Stop'	starts and stops time sequence ⁽¹⁾
Input setting ⁽²⁾	programmable

Times and modes

Time sequences	1 per channel
Time periods	up to 10 per channel or 20 in single-channel mode
Period duration range	0.01 s...9999 min
Time setting	programmable for each period
Output state setting	programmable for each period
Mode selection	programmable
Measurement unit selection	programmable

Outputs ⁽³⁾

Relay electromechanical	5A/250V w/ NO/NC contact
Solid state relay	1A/250 VAC
MOS gate	0.1A/60V, optically isolated
Transistor gate ⁽⁴⁾	open collector, 40mA/40V
Output for external SSR	12/24 V, 30 mA
Relay function	ON and OFF, acc. to time sequence

Accuracy

Measurement error	0.7%
Temperature drift	insignificant

⁽¹⁾ Time sequence start and stop may be initiated through external input or keyboard.

⁽²⁾ Select the active front of external signal

⁽³⁾ When only the single-channel mode will be used (20-period time sequence), only one (the first) relay may be ordered.

⁽⁴⁾ ONLY with isolated power supply!

⁽⁵⁾ Ask for availability!

Indication and controls

Digital display	4 LED indicators, 10 mm
LEDs	2 LEDs for output state, 2 LEDs for indicated channel
Keyboard	4 membrane keys

Power supply

Mains supply voltage ⁽⁵⁾	230 VAC or 115 VAC
SMPS voltage	90...250 VAC/DC
Isolated low voltage	12...24 VAC/DC or 24 VAC ⁽⁵⁾
Non-isolated low voltage	12...24 VAC/DC
Consumption	max. 3 VA

Operating conditions

Operating temperature	-10...65 °C
Operating humidity	0...85 %RH
Storage temperature	-20...65 °C
Storage humidity	0...95 %RH, non-condensing

Design and materials

Case material	plastic
Mounting	in 93x45 mm panel cut-out
Wiring	screw terminals
Dimensions	96x48(front)x125 mm
Mounting depth	120 mm
Weight	max. 350 g
Protection, front/terminals	IP54 / IP20
Increased front IP (option) ⁽⁵⁾	IP65

Ordering code CT12 - G1.G5G5 - #1

Code	Feature or option	Code values
G1	Power supply	A - 230 VAC ⁽⁵⁾ , B - 115 VAC ⁽⁵⁾ , C - 90...250 V, P - 12...24 V, non-isolated, Q - 12...24 V, isolated, R - 24 VAC ⁽⁵⁾
G5	Relay output ⁽³⁾	X - none, C - relay NO/NC, D - SSR, E - open collector NPN ⁽⁴⁾ , J - for external SSR, M - isolated MOS gate
#1	Increased front protection	X - none, P - IP65 front protection ⁽⁵⁾