WARRANTY

_____ _____

production date *warranty card number*

Output K1: ☐ EMR - 5A/250VAC ☐ open collector NPN - 40mA/40V
☐ for external SSR - 50mA/12(24)V

Output K2: ☐ EMR - 5A/250VAC ☐ open collector NPN - 40mA/40V
☐ for external SSR - 50mA/12(24)V

Power supply voltage: ☐ 230 VAC ☐ 115 VAC ☐ 90…250 VAC/DC
☐ 9…12 VAC ☐ 12…24 VAC/DC ☐ . . . . . .

Serial No . . . . . Quality Control Passed:. . . . . .
(stamp)

SPECIFICATIONS

Digital display	3-digit LED, 9 mm
LEDs	2 LEDs for relay control
Accuracy	± 0.02% from span
Operating temperature / humidity	0...50 °C / 0...85% RH
Storage temperature / humidity	-10...70 °C / 0...95% RH
Protection: front / terminals	IP54 / IP20
Consumption	max. 2 VA

Warranty: BASI provides a 24-month warranty for this device.

. . . . . .
(date)

Retailer: . . . . . .

Buyer: . . . . . .

v4-08.09

BASI Instrument AB, Box 132, SE-201 21 MALMÖ, SWEDEN
Tel: +46 40-880 09, Fax: +56 40-92 98 77, E-mail: info@basi.se

MULTIFUNCTIONAL 2-PERIOD TIMER

BDT03

OPERATION MANUAL

BDT03 is a low-cost microprocessor-based device for time sequence control with a 48x48 mm DIN sized front panel. There are 2 adjustable time periods forming a time cycle and 4 different timing modes. Period duration is adjustable via push-wheel switch on the front panel. The timer has 2 contact inputs for external start and HOLD and 2 output relays for timing control of processes by switching on and off electrical actuators. The relay action as well as the start/restart mode can be programmed with a set of parameters. BDT03 is equipped with a 3-digit display, indicating the current time, the parameters, or the operating mode. All modes of operation and parameters are user-programmable through the front panel keyboard. The extended features of BDT03 simplify programming and timing process monitoring and make it a convenient solution of a wide range of problems.

Please read this Operation Manual before mounting and operating!

MOUNTING AND WIRING

Place BDT03 into a 45x45 mm panel cut-out (Fig.1) and tighten it into place using the snap-on mounting bracket. Wire the timer using OCTAL connector and strictly following the wiring diagram on Fig.2. Do not turn the power supply on while mounting and wiring!

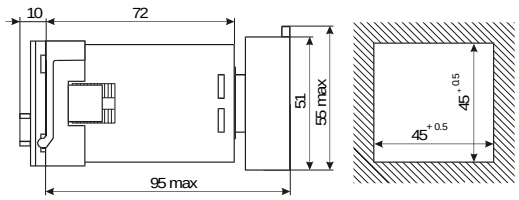


Fig.1

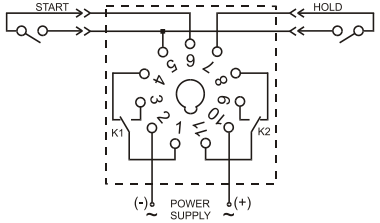


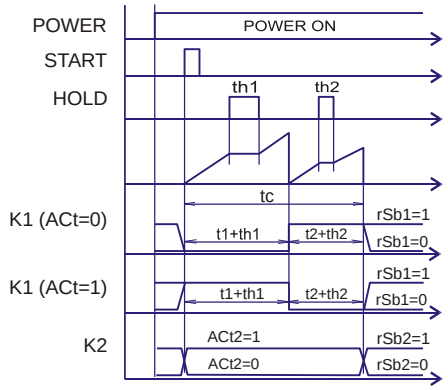
Fig.2

OPERATING

BDT03 has 2 contact control inputs for external (re)start (START) and time-counting hold-up (HOLD). Combinations of 2 adjustable time periods – t1(1st period, beginning after START) and t2 (2nd period or Total time) form 4 different timing modes (see time diagrams below). The duration of each period is adjustable within one of the following 5 sub-ranges: 0.00...9.99 sec, 0.0…99.9 sec, 0…999 sec, 0…999 min, and 0…999 min x 10. There are 2 control outputs - K1, which activates alternatively with t1 and t2, and K2, which activates for the total cycle time - whose action can be programmed with parameters ACt1, ACt2, rSb1, and rSb2.

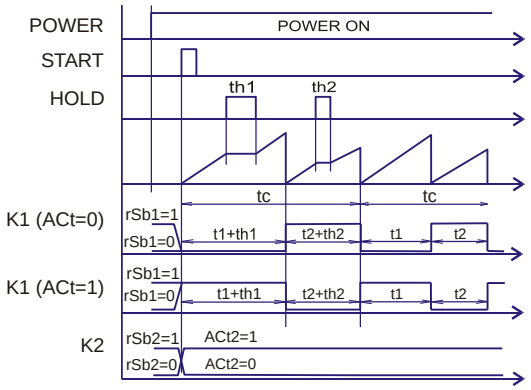
MODE 0

one-shut cycle: t1 + t2



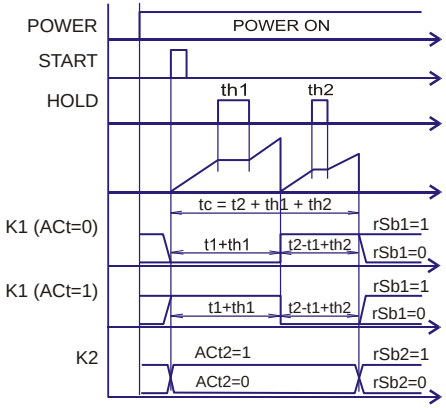
MODE 1

repeated cycle: t1, t2, t1, t2,....



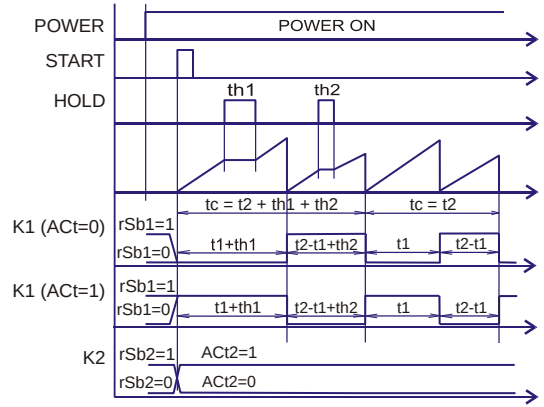
MODE 2

one-shut cycle (t2 - total time) : t1 + (t2-t1)



MODE 3

repeated cycle (t2 - total time) : t1, (t2-t1), t1, (t2-t1),....



tc - total cycle time; th1, th2 - times when HOLD input holds time counting

PROGRAMMING