



Universal Multifunction Digital Timer

BT2000

- 48 x 48 mm DIN standard Housing
- Multifunction—6 modes of operation
- Time UP or Down
- Universal 12 - 260 VAC/DC supply
- 8 Amp changeover relay output
- Back lit LCD display
- Trigger/enable input
- Crystal controlled accuracy
- Time from 0.01 secs to 9999 hours



DESCRIPTION

This timer is programmed using the front panel push switches to set the time and mode of operation. The timer is set up while un-powered using the internal lithium cell. This unique facility enables the user to configure the device ready for plugging in on site. Once programmed the settings are stored for at least 10 years.

Time Setting Decimal: There are 6 ranges in decimal format. These are: 99.99sec, 999.9sec, 99.99 min, 999.9 min 99.99 hours and 999.9 hours

Time Setting HH::MM::SS: In this mode the timer can be set to any time up to 9999h:59m:59s. The display can be scrolled to show any four of the digits at a time.

Modes of Operation:

{All Modes can time UP or Down}

Delay On: The timer times with the relay de-energised. At time out the timer stops and the relay goes on. The time period can start from power on or from closure of the switch input. Opening the switch input at any time resets the timer

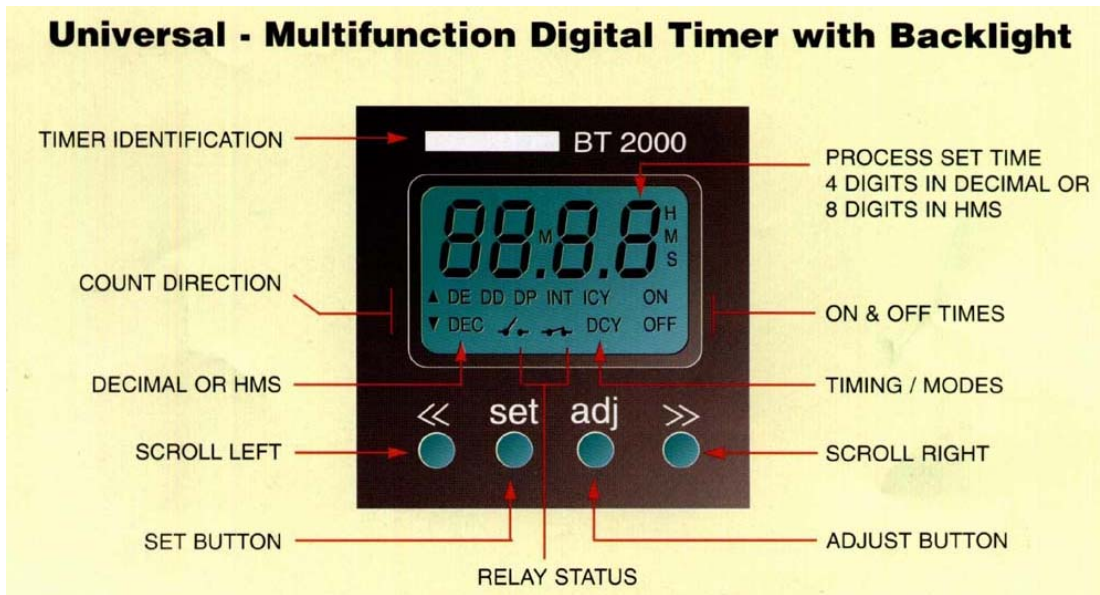
Delay Off: With supply permanently applied the relay energises when the switch is closed. The time period starts when the switch is opened, and the relay de-energises at the end of the period. Closing the switch before the time period ends resets the time and stops the timer. After the time ends closing the switch re-energises the relay and another time period starts when the switch re-opens.

Delay Pulse: The output relay remains de-energised for the set time and is then energised for 250 milliseconds only. The Time can be started from power on or closure of the switch input.

Interval Delay: This is opposite to Delay On in that the relay is energised immediately on application of the supply or closure of switch input and goes off at the end of the period.

Immediate Cycle: The relay energise immediately power is applied (or switch input closed) and remains on for the set 'on' time and then de-energises for the set 'off' time. This cycle repeats whilst supply and switch input are maintained.

Delay Cycle: This is the reverse off Immediate cycle as above. The relay is Off for the first cycle and then comes on.



SPECIFICATION

Display:	10mm LCD with backlight. 4 digit with 8 digit scroll
Connection:	Standard 8 Pin Octal plug
Power Input:	Any voltage from 12 to 260v AC or DC
Time Ranges:	Set any time between 0.01 seconds and 9999hrs 59min 59sec
Input Signal:	Volt free or solid state
Power Consumption:	Approx 3.5 watts
Contact Rating:	SPDT relay rated at 8 Amps at 250 VAC/ 30 VDC
Mechanical Life:	20 million operations
Electrical Life:	100,000 operations at 8 amps at 250 VAC / 30 VDC
Breakdown:	2500VAC for 1 minute
Operating Temperature:	-20 to +55 deg C
Repeat Accuracy:	0.01%
Reset time:	<20 milliseconds
Battery:	2 Lithium cells—10 year life
Approvals:	UL, CSA, VDE, CE
Protection:	IP65 (case to panel gasket supplied) & internally fused
Dimensions:	48 x 48 x 83 (99 mm overall)
Panel Cut Out:	45 x 45 mm

ORDER CODE

BT2000

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