Quick Reference Guide

Electronic Timer H-series
(H1DT-10, 30, 60 & H4DT-10, 30,60)

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INTRODUCTION

Thank you for purchasing EAPL'S H-series Timer. This instruction manual describes every aspect of installation, set-up, and operation of the Timer. If you run into difficulties and need technical assistance, feel free to call our technical support at (080) 28567561 available between 9 AM – 5:30PM IST or visit our web site at www.eaplindia.com.

EAPL, an ISO 9001 company, leaders in Timer Technology Brings to you a new range of micro controller based programmable timers. High reliability, accuracy, compactness are some of the striking design features.

Uncompromising quality with cost effectiveness has been the watchword of EAPL.

For Customer Use

Enter below the serial Number which is located on the timer cabinet. Retain this information for future reference.

Model No:

Serial No:

Batch No:

Date of Purchase:

Purchase Point:

Accessories

- H-Series Timer- 1 no.
- Spacer/Side anchor for panel mounting.
- Quick reference guide

NOTE: Please acknowledge that we reserve the right to make changes in product performance or specifications without prior notice. Also please note that we bear no responsibility for mistakes, misprints or omissions of the instruction manual Specifications.

Salient Features

- Din sized (48mm x 48mm) enclosure for Panel/Track/Screw mounting.
- 11 pin plug-in type connections in case of H1DT and 8 pin plug in type connection in case of H4DT.
- Front terminal protective cover for safety. LED blinking indication for timing in progress.
- Large transparent knob for precise time setting.

Ordering Information

Model	Function	Source Voltage	Time Range
H1DT-10	On delay	240V AC	1 sec to 10 secs
H1DT-30	On delay	240V AC	3 secs to 30 secs
H1DT-60	On delay	240V AC	6 sec to 60 secs
H4DT-10	On delay	240V AC	1 sec to 10 secs
H4DT-30	On delay	240V AC	3 secs to 30 secs
H4DT-60	On delay	240V AC	6 sec to 60 secs

Specifications

H1DT-10/30/60

Operating Voltage Range	- 20% to + 10% of rated voltage
Rated frequency	50 Hz ± 5%
Power consumption	10V A / 2W
Control output	2 C/O rated for 5A@ 250V AC/28V DC, Resistive load ±10% for both V & I
Setting Accuracy	± 10%, ± 100msecs.
Repeat Accuracy	± 1%max ± 100msecs.
Recovery Time	100msecs min.
Rated frequency of operation	1800/hr ±5%
Variation due to voltage change	±2%max ± 100msec.
Variation due to temp. change	±5%max ± 100msec.
Ambient Temperature	Operating: - 10 degree C to + 55 degree C Storage : - 25 degree C to + 80 degree C
Humidity	Max. 85% RH @ 40 degree C
Service Life	10^6 operations minimum under no load
Electrical Life	10^5 Operations minimum with full load
Connections	11 pin rear terminal
Dimensions	48 x 48 x 94mm [W x H x D]

H4DT-10/30/60

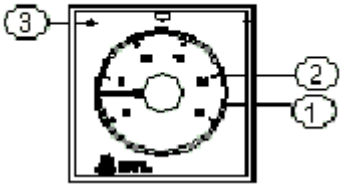
Operating Voltage Range	- 20% to + 10% of rated voltage
Rated frequency	50 Hz ± 5%
Power consumption	10V A / 2W
Control output	2 C/O rated for 5A@ 250V AC/28V DC, Resistive load ±10% for both V & I
Setting Accuracy	±10% ; ± 100msecs.
Repeat Accuracy	± 1%max ± 100msecs.
Recovery Time	100msecs min.
Rated frequency of operation	1800/hr ± 5%
Variation due to voltage change	±2% max ± 100msec.
Variation due to temp. change	±5% max ± 100msec.
Ambient Temperature	Operating: - 10 degree C to + 55 degree C Storage : - 25 degree C to + 80 degree C
Humidity	Max. 85% RH @ 40 degree C
Service Life	10^6 operations minimum under no load
Electrical Life	10^5 Operations minimum with full load
Connections	8 pin rear terminal
Dimensions	48 x 48 x 94mm [W x H x D]

Operating Instructions

Caution

- While selecting the time range, ensure proper positioning of SEC/MINS within the window Cutout. Also ensure proper alignment of full range w.r.to markings on the scale.
- Do not change the time range while the timer is in operation.
- Application of voltage other than the specified one will permanently damage the timer.

Front Panel



1 KNOB
It is used to set the time.

2 SCALE
It is time range markings.

3 LED
On power application LED starts flashing after set time elapses and relay changes over LED remains continuously ON and remain in this state till the power is interrupted.

Terminal Details

H1DT-10/30/60

2, 10 : Power
1-4, 11-8 : Normally Closed (NC)
1-3, 11-9 : Normally Opened (NO)

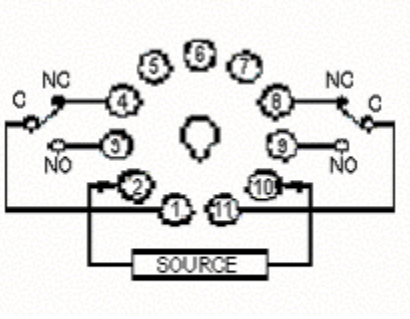
H4DT-10/30/60

2, 7 : Power
1-4, 8-5 : Normally Closed (NC)
1-3, 8-6 : Normally Opened (NO)

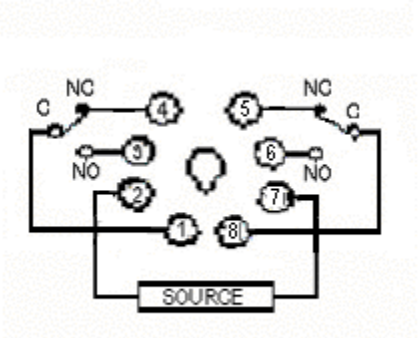
NOTE: In case of H4DT-10/30/60 only **8 pins** are there .The terminals 5, 6, 7 are dummy terminals in H1DT-10/30/60.

Connection

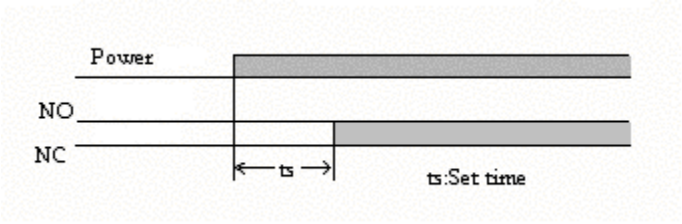
H1DT-10/30/60



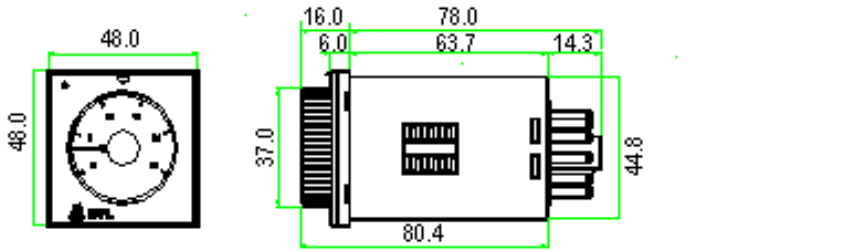
H4DT-10/30/60



Timing diagram



Dimensions



NOTE:ALL DIMENSIONS ARE IN mm

How to select the Time range

While selecting the time range, ensure proper positioning of SEC/MINS within the window cutout. Also ensure proper alignment of full range with respect to markings on the scale.

How to operate the timer

- Apply the rated voltage to source terminals.
- After the set on delay time, the relay changes over.