

General

ERD-XXT triggered ON Delay and OFF Delay delay digital timer is designed to be used wherever time dependent control is required.

Usage and Working Principle of the Device

Display : It is shown here when setting the time and counting down the set time. If the operating time is set in minutes, the rightmost dot on the display will flash while the device is counting the time. This dot will not flash if it is not counting time (device is not triggered).

Menu Button: This button is used to enter the menu and switch between parameters to set the time range (min./sec.) and operation function.

UP and DOWN Button: This button is used to set the working time value, to set the time range (min./sec.) and operation function while in the menu. When not in the menu, press the "UP button" for 2 seconds. If it is kept pressed for a while, the time value is increased, pressing the "DOWN button" for 2 seconds. If it is pressed for a while, the time value is decreased. The set time is displayed on the screen. (If the time is changed while the device is counting time, it will continue to count the new set time.)

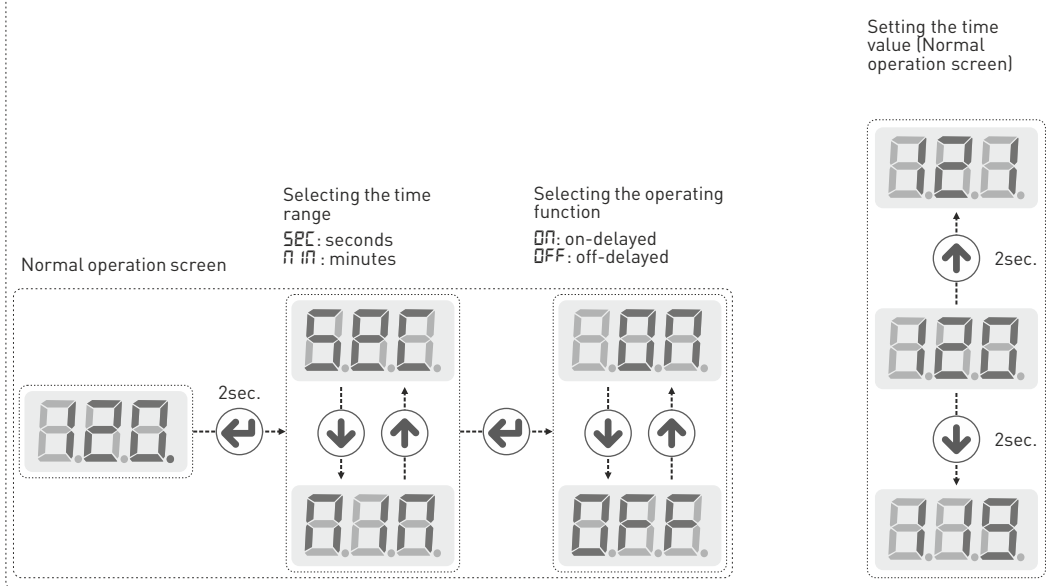
TRG LED : This led turns on if there is energy at the trigger (TRG) input. In order for the device to start counting the set time, the TRG input is energized and the device is triggered. Once the device is triggered and starts counting the time, the power cut at the TRG input does not affect the operation of the device, the device continues to count the time. After the timer has finished, the device must be triggered again to restart.

OUT Led: This led lights up when the device energized the relay.

Setting Working Time, Time Range (min/sec) and Working Function

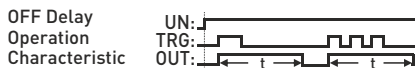
By pressing the "MENU" button for 2 seconds, the setting screen is entered. Then "SEC" or "M IN" text is displayed on the screen, "SEC" is selected for the second mode and "M IN" is selected for the minute mode. Then "MENU" button is pressed, "ON" or "OFF" text will be displayed on the screen, "ON" is selected for on-delay mode and "OFF" is selected for off-delay mode. Then, by pressing the "MENU" button again, the menu screen is exited. After exiting the menu, the desired time value is set by using the UP/DOWN buttons on the normal operating screen.

NOTE: In the minute mode, the digit after the dot is multiplied by 10 and added to the set time in seconds.
Example: If the set time is 14.3 minutes, it means 14 minutes and 30 seconds.



Relay Energized/De-energized Status

Relay is Energized: 2 (COM) and 3 (NC) short circuit, 1 (NC) and 2 (COM) open circuit.
Relay is De-energized: 2 (COM) and 1 (NC) short circuit, 3 (NC) and 2 (COM) open circuit.



Warnings

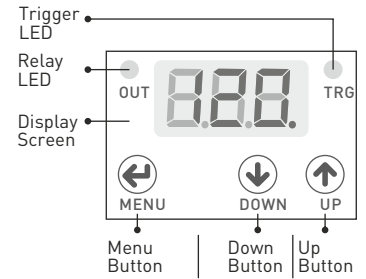
- Please use the device according to the manual.
- Don't use the device in wet.
- Include a switch and circuit breaker in the assembly.
- Put the switch and circuit breaker nearby the device, operator can reach easily.
- Mark the switch and circuit breaker as releasing connection for device.

Maintenance

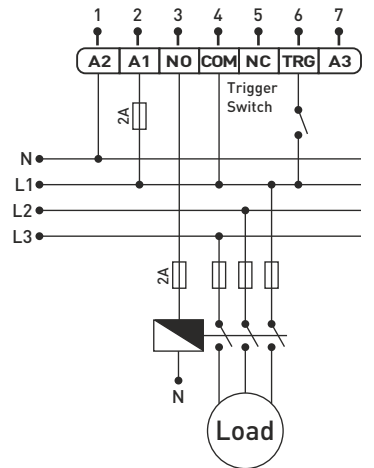
Switch off the device and release from connections. Clean the trunk of device with a swab. Don't use any conductor or chemical might damage the device. Make sure device works after cleaning.

Technical Specifications

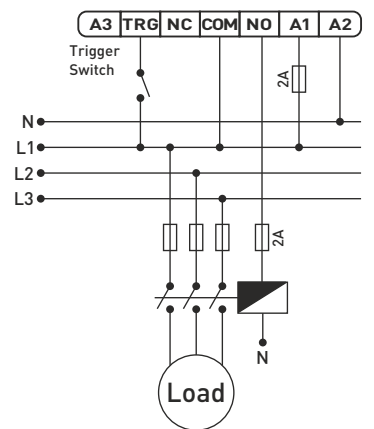
Operating Voltage (A1-A2) : 160-240V AC 50/60Hz.	Display : 1x3 LED Display, 2x LEDs.
Operating Voltage (A2-A3) : 24V AC/DC (A2 (-), A3 (+))	Connection Type : Mounting on the front panel cover.
Trigger Voltage (TRG) : 24V - 240V	Weight : <250gr.
Operating Power : <6VA	Contact : 5A 250V AC Resistive Load
Operating Temperature : -20°C.....+55°C	Operating Altitude : <2000m
Operating Time Range : 0,1 sec. - 999 min.	Cable Diameter : 2,5mm ²



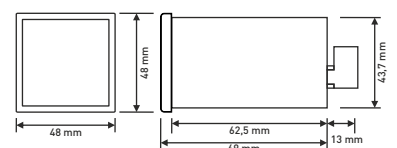
Connection Diagram for ERD-48T



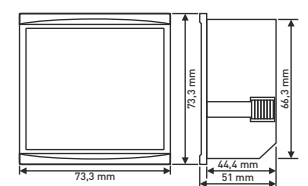
Connection Diagram for ERD-72T and ERD-96T



Dimensions for ERD-48T



Dimensions for ERD-72T



Dimensions for ERD-96T

