

General

ERS-08N, multi-functional digital timer is designed to be used wherever time-dependent control is required.

Usage of the Device and Working Principle

Display : When setting the time and function and when the set time is counting down, it is shown here. When the device is counting down, the dot on the right of the display flashes. If the time is not counting (the set time is over), this dot does not flash.

Function Knob : To set the operating function, set this knob to the desired value. While the function is being set, the set function is displayed on the screen. The device must be re-energized for the changed function to be valid.

Time Multiplier Adjustment Knob : To adjust the time multiplier, set this knob to the desired value. While adjusting the time multiplier, the set time period is displayed on the screen.

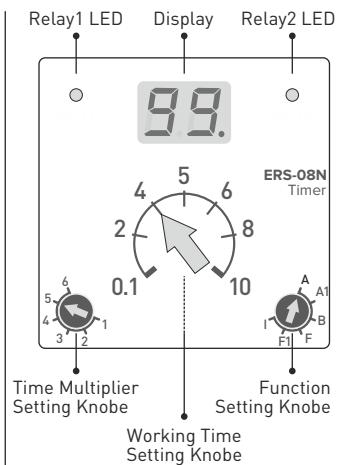
The maximum setting times for time multipliers are as follows; 1 (10 sec.), 2 (100 sec.), 3 (10 min.), 4 (100 min.), 5 (10 hours), 6 (100 hours).

NOTE : For time multipliers 2, 4 and 6, the value displayed when setting the time is multiplied by 10.

Example: In time multiplier number 2 (100 sec.), when adjusting the time with the "t" button, if the value displayed on the screen is 7.5, the set time will be 75 seconds.

t Knob: To set the working time value, turn the "t" knob to the desired value. While setting the t time, the set time is shown on the screen. (If the time is changed while the device is counting, the device continues to count the new set time.)

OUT LEDs : These LEDs light up when the device energizes the relays. (OUT1 for relay 1, OUT2 for relay 2)



Function Table

A - ON Delay : When the device is energized, it counts down the set time, then OUT1 and OUT2 are energized at the same time and OUT1 and OUT2 remain energized until the device is de-energized.	<p>Supply 2-7</p> <p>Out1 & 2 NC 1-4[8-5]</p> <p>Out1 & 2 NO 1-3[8-6]</p>
A1 - ON Delay - Instantaneous Contact and One Shot : When the device is energized, it energizes OUT2 and counts down the set time, then energizes OUT1 for 0.5 seconds and then de-energizes it. OUT2 remain energized until the device is de-energized.	<p>Supply 2-7</p> <p>Out1 NC 8-5</p> <p>Out1 NO 8-6</p> <p>Out2 NC 1-4</p> <p>Out2 NO 1-3</p>
B - ON Delay - Instantaneous Contact : When the device is energized, it energizes OUT2 and counts down for the set time, then energizes OUT1. OUT1 and OUT2 remain energized until the device is de-energized.	<p>Supply 2-7</p> <p>Out1 NC 8-5</p> <p>Out1 NO 8-6</p> <p>Out2 NC 1-4</p> <p>Out2 NO 1-3</p>
F - Synchronous Flasher - Off Start : When the device is energized, it counts down for the set time, then energizes OUT1 and OUT2. OUT1 and OUT2 remain energized for the set time, at the end of the time, the device de-energizes OUT1 and OUT2. Then the device counts down for the set time again, and at the end of the time, energizes OUT1 and OUT2 again. It continues to operate in this manner until the device is de-energized.	<p>Supply 2-7</p> <p>Out1 & 2 NC 1-4[8-5]</p> <p>Out1 & 2 NO 1-3[8-6]</p>
F1 - Synchronous Flasher - On Start - Instantaneous Contact : When the device is energized, it energizes OUT1 and OUT2 and counts for the set time. OUT1 remains energized for the set time, at the end of the time, the device de-energizes OUT1. Then the device counts the set time again and energizes OUT1 again at the end of the time. It continues to operate in this manner until the device is de-energized. OUT2 remain energized until the device is de-energized.	<p>Supply 2-7</p> <p>Out1 NC 8-5</p> <p>Out1 NO 8-6</p> <p>Out2 NC 1-4</p> <p>Out2 NO 1-3</p>
I - Off Delay - Instantaneous Contact : When the device is energized, it energizes OUT1 and OUT2 and counts down for the set time, then de-energizes OUT1. OUT2 remain energized until the device is de-energized.	<p>Supply 2-7</p> <p>Out1 NC 8-5</p> <p>Out1 NO 8-6</p> <p>Out2 NC 1-4</p> <p>Out2 NO 1-3</p>

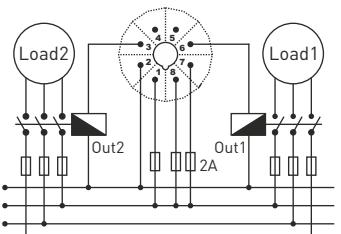
Warning

- 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.

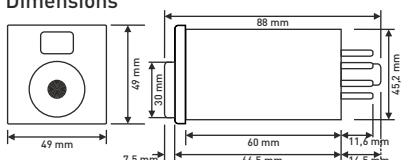
Maintenance

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.

Connection Diagram



Dimensions



Technical Specifications

Operating Voltage (2-7) : 50-240V AC 50/60Hz. or 24-200V DC	Connection Type : 8 pin socket.
Operating Power : <6VA	Mounting : Mounted on the panel cover.
Operating Temperature : -20°C.....+55°C	Panel Hole Sizes : 46x46mm
Operating Time Range : 0,1sec. - 100 hours	Weight : <100gr.
Reset Time : 0,5sec.	Contact : 5A 250V AC Resistive Load
Display : 1x2 LED Display, 2x LEDs.	Operating Altitude : <2000m

Connection Type : 8 pin socket.
Mounting : Mounted on the panel cover.
Panel Hole Sizes : 46x46mm
Weight : <100gr.
Contact : 5A 250V AC Resistive Load
Cable Diameter : 1,5mm ²