

# Hour meters / timers, electronic

<b>LCD time modules</b>	<b>Max. time range 9999.99 h (DC)</b>	<b>194</b>
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The timer module of the type 194 for PCB mount features a 6-digit LCD display and 2 voltage ranges (4.75...15 V DC and 9...60 V DC).

It is extremely robust and suitable for many different applications thanks to its wide temperature range.

Hour meters /  
Timers

Timer	4.75...60 V Power supply	PNP Input type	High shock resistance	-40° + 80° Temperature range	PCB mount	6 LCDs LCD display	Electrical reset

## Powerful

- Display range up to 9999-99 hours
- 6-digit LCD display, 6 mm high
- Low power consumption
- Wide voltage and temperature range
- Very high shock and vibration resistance

## Simple

- Non-volatile memory (no battery)
- Counting starts as soon as power supply is applied
- Electrical reset
- Very high reliability
- Small size and low cost

## Order specifications

Power supply	Order-No.	Art.-No.	Delivery specification
4.75 ... 15 V DC	<b>6.194.012.F00</b>	162 137	- LCD hour meter module type 194
9 ... 60 V DC	<b>6.194.012.G00</b>	162 138	- Operating instructions

## General technical data

<b>Display</b>	6 digits, LCD display, figure height 6 mm [0.24"]
<b>Display range</b>	9999-99 h
<b>Data backup</b>	CMOS EEPROM non-volatile memory up to 10 years
<b>Operating temperature</b>	-40°C ... +85°C [-40°F ... +185°F] (non-condensing)
<b>Working temperature</b>	-20°C ... +80°C [-4°F ... +176°F] (non-condensing)
<b>Storage temperature</b>	-50°C ... +90°C [-58°F ... +194°F]

## Electrical characteristics

<b>Power supply</b>	...F00	4.75 ... 15 V DC, with reverse polarity protection
	...G00	9 ... 60 V DC
<b>Current consumption</b>	...F00	8 mA at 4.75 ... 15 V DC
	...G00	6 mA at 9 ... 60 V DC
<b>EMC</b>	Emitted interference	EN 61000-6-3 EN 55011 class B
	Immunity to interference	EN 61000-6-2

The module must be protected against inductive voltage spikes and high energy noise interference.

## Mechanical characteristics

<b>Housing</b>	colour	black
<b>Weight</b>		approx. 8 g [0.28 oz]
<b>Shock resistance</b>	acc. to DIN-IEC 68-2-27	550 m/s <sup>2</sup> , 11 ms
<b>Vibration resistance</b>	acc. to DIN-IEC 68-2-6	50 ... 200 m/s <sup>2</sup> , 10 ... 80 Hz

## Inputs

<b>Reset input</b>	HIGH	4 ... 60 V DC
	LOW	0 ... 0.7 V DC
	pulse length	min. 1 ms, edge triggered (rising)
<b>Measuring error</b>		a max. error of 36 sec. occur per Start/Stop cycle
<b>Accuracy (Quarz)</b>		max. 200 ppm 25°C [+77°F]

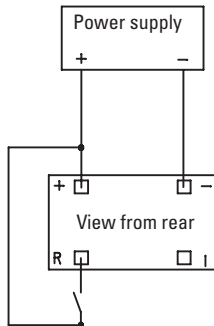
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194

## Terminal assignment



## Dimensions

Dimensions in mm [inch]

