

- ✓ Up-Down Timer
- ✓ Period Timer
- ✓ Window Timer
- ✓ Start-Stop Timer
- ✓ Six digit display
- ✓ Mains or DC Supply
- ✓ Parameter Memory
- ✓ Two Set Points
- ✓ Two Analog Outputs
- ✓ RS232 and RS485
- ✓ Variety of Customized Software



**OC7171A-T** is a 6 digit Timer for measurement of time intervals or generation of time increments.

#### **Time Measurement Mode**

The timer can be programmed as a *Period Time Meter*, a *Window Time Meter* or as a *Start-Stop Time Meter*.

In the first mode the time of the whole period is measured. In the second mode the time of the positive portion of the input signal is measured. As a *Start-Stop Time Meter* the measurement is initialized with the Start and ends with the Stop. The display can be reset to zero.

Period Time Meter starts the measurement with the first rising edge. The display is set to zero and the time measurement is initialized. The time of the whole period is measured. With the rising edge of the next period the cycle repeats.

Window Time Meter starts the measurement with each rising edge of the input signal. The display is set to zero and the time measurement is initialized.

The time is measured as long as the input signal is at logic 1 level. The display refreshes at the end of each measurement.

Start-Stop Time Meter measures the time intervals between the Start and the Stop signals. The Reset input can be used to set the display to zero. The display can increment continuously *Cont* or can change at the end of each measurement *St-St*. The type of the mode is keyboard selectable. By connecting the Reset with the Start at the terminal block, the display will reset at the beginning of each measuring cycle.

#### **Time Generation Mode**

The instrument can be used as an *Up-Timer* or as a *Down-Timer*. In these modes the internal time base is used for generation of time intervals. The required time is set with the keyboard. After a Start signal (external or via the keyboard) the time interval is generated.

The time can increment from zero to a Preset or decrement from the Preset to zero.

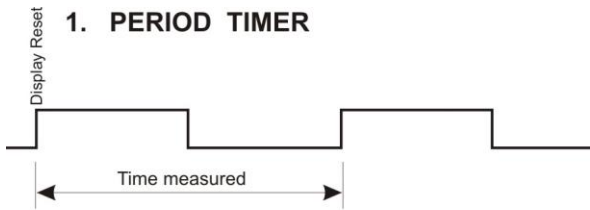
Up - Down Timer in the time generation mode generates the preselected time increments Up or Down. The counting direction is determined by the logic level at the control input.

With the keyboard is the timer initialized, stopped or set to zero. These functions can also be initialized with control signals at the terminals.

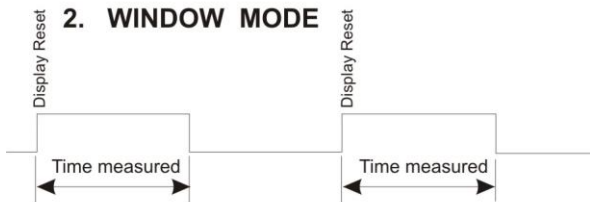
The time increments, display resolution and other process parameters as well as the parameters of the installed options can be programmed from the keyboard at the instrument's front.

By using an option card, two analog outputs, two serial data ports and two set point relay are available.

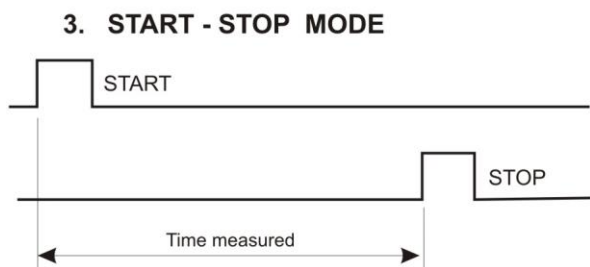
The Timer OC7171A-T is enclosed in a DIN-cabinet and supplied from the mains or a DC Supply. The front cover is IP65.



The Time is measured between two consecutive raising edges.



The Time is measured during the active positive signal level.



The Time starts with START and stops with STOP external signals.

The required operation Mode will be set at the factory and must be specified when ordering.

## SPECIFICATIONS

Customized solutions upon request

### Display

0....±999999, red, 14.7 mm, with decimal point and sign.

### Star, Stop, Reset Inputs

Positive logic 5-24V, protected to 48V.

Start, Stop and Reset can also be initialized from the keyboard

### Analogue Output (Option)

Voltage: 0 ... 10V

Current: 0/4-20mA.

Resolution 12 bit, Option 16 bit.

Isolation 250V rms.

### Data ports (Option)

RS232 and RS485 (4 wire), with 8 bit, no Parity, 1 Start, 1 Stop, 600-19200 bd. Address 00 - 31.

Isolation 250V rms.

### Time Base

Internal Quartz base 50ppm/K

### Preset

Additive constant (offset) is programmable from 0 to ±999999 with decimal point and sign. The preset can be inserted into the display with the keypad.

### Excitation

5-24V/40mA adjustable.

### Set Points (Option)

Two Relay 5A-230VAC or NPN transistors 60V/100mA.

### Supply

115/230V ±10%, 50-60Hz, 6VA.

Option: 9 - 36 V DC, 4 W.

### Cabinet

DIN 48x96Xx100mm.

Panel cut-out: 45x90 mm.

Pluggable screw terminals