1/16 DIN Multi-Programmable Timers

PTC-20 Series

- 1/16 DIN Cutout
- 3 Different Models:
  - Standard
  - High-Performance
  - Repeat Cycle
- 4-Digit Dual-Line Display Indicates Set Value and Time Value
- All Models Offer Multiple Field-Programmable Modes For Operation and Time Ranges
- NEMA 4 (IP65) Rated for Use in Washdown Conditions
- Universal AC Supply Voltage (90 to 264 Vac) or Optional 24 Vac/Vdc Models
- 5 A Relay Output or Open-Collector Output
- Industry-Standard 11-Pin Socket Connection*

If you are looking to outfit your control panel with timers that have an attractive LED display, consider the PTC-20 Series, which delivers functionality at competitive prices.

Designed to fit the correct timer to your application, the PTC-20 Series comprises 3 models. The PTC-21 base unit offers 5 field-selectable operating modes and time ranges as well as a host of other convenient features. The high-performance PTC-23 offers advanced functions, such as dual setpoints and 1 ms resolution. The PTC-22 provides a repeat cycle (batch stop, batch continue) and interval modes specifically tailored for cyclical operations.

General Specifications

Supply Voltage: 90 to 240 Vac, 50/60 Hz, or 24 Vac/Vdc
Power Consumption: <10 VA
Resolution: Settable for time values in hours/minutes/seconds ranges
Inputs Start and Reset: NPN or dry contact
Activation Time: 4 ms (24 Vac/Vdc units), 21 ms (85 to 264 Vac powered units)

Impedance: 10 kΩ
Front-Panel Rating: IEC IP65
Operating Temperature: 0 to 55°C (32 to 131°F)
Storage Temperature: -40 to 90°C (-40 to 194°F)
Humidity: 5 to 95% RH, non-condensing
Memory: Non-volatile
Operation Time Ranges: Hours, minutes, seconds; hours, minutes; minutes, seconds
Repeat Accuracy: ±0.01%

Physical
Dimensions: 48 H x 48 W x 85 mm D (1.89 x 1.89 x 3.35”)
Display: Dual-line, 4-digit, 7-segment LED, 8 mm H (0.31”)
Mounting: Panel-mount 45 x 45 mm (1.77 x 1.77”), cutout or DIN rail
Wiring Connection: Screw terminals on an 11-pin socket
Weight: 100 g (3.5 oz)

Base Model PTC-21
Output: Timed relay, DPDT (5 A)
Operating Modes (Shown): On-delay, off-delay, on-delay (interval), interval and repeat cycle

Repeat Cycle PTC-22
Inhibit: NPN or dry contact
Outputs:
  - Relay: 2 SPDT (5 A), 15 ms latency
  - Transistor: NPN
Open Collector: 30 Vdc, 30 mA max
Operating Mode (Shown):
  - Repeat Cycle: Batch stop, batch continue and interval

High Performance PTC-23
Inhibit: NPN or dry contact
Outputs:
  - Relay: 2 SPDT (5 A), 15 ms max latency
  - Transistor: NPN
Open Collector: 30 Vdc, 30 mA max opto isolated
Operating Modes: 17 different operating modes available (popular modes shown)

OMEGACARE extended warranty program is available for models shown on this page. Ask your sales representative for full details when placing an order. OMEGACARE covers parts, labor and equivalent loaners.

To Order

<table>
<thead>
<tr>
<th>Model No.</th>
<th>Description</th>
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<tbody>
<tr>
<td>PTC-21</td>
<td>Standard timer</td>
</tr>
<tr>
<td>PTC-22</td>
<td>Repeat-cycle timer</td>
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<tr>
<td>PTC-23</td>
<td>High-performance timer</td>
</tr>
<tr>
<td>PTC-21-SOCKET</td>
<td>Socket for PTC-20 Series - *Required for operation</td>
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Comes complete with operator’s manual.

Ordering Example: PTC-21, standard timer.

OCW-2, OMEGACARE extends standard 1-year warranty to a total of 3 years.