

# 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)



PTC-21



PTC-22



PTC-23

Panel Punches Available, Visit OMEGA

All models shown smaller than actual size.

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

### To Order

| Model No.     | Description  |
|---------------|--|
| PTC-21        | Standard timer                                     |
| PTC-22        | Repeat-cycle timer                                 |
| PTC-23        | High-performance timer                             |
| PTC-21-SOCKET | Socket for PTC-20 Series - *Required for operation |

Comes complete with operator's manual.

**Ordering Example:** PTC-21, standard timer.

OCW-2, OMEGACARE<sup>SM</sup> extends standard 1-year warranty to a total of 3 years.