Kuhnke Technical Data

The following page(s) are extracted from multi-page Kuhnke product catalogues or CDROMs and any page number shown is relevant to the original document. The PDF sheets here may have been combined to provide technical information about the specific product(s) you have selected.

Hard copy product catalogues, and CDROMs have been published describing Kuhnke Pneumatics, Solenoids, Relays and Electronics; some divided into different books. A list of current publications is available on this web site or from our sales offices. Some may be available for download, but as substantially larger files.

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Important Note

The information shown in these documents is for guidance only. No liability is accepted for any errors or omissions. The designer or user is solely responsible for the safe and proper application of the parts, assemblies or equipment described.
Panel or Subplate Mounted Pneumatic Timer
(Up to 3 Minutes)

The Type PMT timer is an adjustable precise time delay control device. The timer is available with an on delay (NC) output.

Timing operation is dependent upon the input of a separate control signal which starts the timing sequence by setting a vacuum within the timer. Using atmospheric pressure (independent of line pressure), the timer begins the preset timing cycle. At the end of the cycle an internal 3 way valve is switched providing an output. The timer resets automatically after removal of the control signal.

The PMT has a separate subplate enabling the unit to be supplied with 10-32 or 1/8 NPT porting. The timer can be panel mounted with a bezel, or in the rear on a sub plate.

Technical Specifications

**Op. Pressure:**
15 to 100 PSI

**Connections:**
10-32 or 1/8 NPT ports
via bottom sub plate

**Control Pressure:**
(A) Low Press. – 15 to 100PSI
(B) Standard – 30 to 100 PSI

**Media:**
Filtered air or non-aggressive gas, non-lubricated.

**Timing Valve:**
Cv - .005
Flow @ 100 PSI -.1 CFM

**Dial Indicator:**
Displays set time.

**Timing Start:**
Application of pilot pressure to control port.

**Reset:**
Automatic by removal of pilot signal.

**Reset Time:**
60 ms @ 50 PSI

**Repeatability:**
± 3% of selected time.

**Time Setting:**
Via adjustment knob.
Accuracy ±10%

**Operation:**
Timing cycle uses atmospheric pressure drawn into vacuum.

**Air Consumption:**
.1 CFM @ 100 PSI

**Materials:**
Acetal and polycarbonate enclosure. Diaphragms-
Buna N

**Operating Ambient:**
0ºC to 65ºC (32ºF to 150ºF)

**Dimensions (inches):**
(including sub plate)
Height – 2 1/16
Width – 1 1/2
Depth – 4 1/4

**Mounting:**
Via sub plate (2 holes) or if Panel mounted, through a 1 ½ “ square cutout.
2 mounting holes required, hardware included.
**Counters and Timers**

**PMT Timers**

### Selection Chart

<table>
<thead>
<tr>
<th>Timing Range</th>
<th>Catalog Number</th>
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<tbody>
<tr>
<td></td>
<td>Subplate Mounting</td>
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<tr>
<td></td>
<td>Vertical Bezel</td>
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<tr>
<td>0.3 to 3 Seconds</td>
<td>PMT1D1B3</td>
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<tr>
<td>1 to 10 Seconds</td>
<td>PMT1E1B3</td>
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<td>3 to 30 Seconds</td>
<td>PMT1F1B3</td>
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<td>12 to 120 Seconds</td>
<td>PMT1H1B3</td>
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<tr>
<td>18 to 180 Seconds</td>
<td>PMT1J1B3</td>
</tr>
</tbody>
</table>

### Diagram

![Diagram](image)

### Port Identification

6 - Control input signal.
1 – Air supply.
2 – Valve output.

### Subplate (Required)

The PMT, whether panel or base mounted, requires a subplate for connecting fittings and air lines. Several types are available to suit connection needs. The subplate is supplied loose and unmounted, as a separate item.

### Low Pressure Version

The PMT standard control input pressure range is 30 to 100 PSI. For a low pressure pilot actuator (15 PSI min.), change the “B” in the catalog number to “A”.

### Subplate Mounting Position

Standard timers are supplied with the subplate mounting position at the bottom of the timer. For mounting the subplate in another position, change the last digit of the catalog number as follows: 1 for top; 2 for right side; 3 for bottom; 4 for left side.

### Power Connections

For installations requiring larger output valves, use the standard timer and connect a pneumatically operated single air piloted 3 or 4 way valve of the size required to the timer output. Contact factory with size requirements.

### Typical Circuits

See typical timing circuit diagrams at the end of the timer catalog section for help in constructing pneumatic timer circuits.