**FEATURES**
- Carbon resistive element
- Dust proof enclosure
- Polyester substrate
- Also upon request:
  - Wiper positioned at 50% or fully clockwise.
  - Supplied in magazines for automatic insertion.
  - Long life model for low cost control potentiometer applications
  - Self extinguishable plastic UL 94V-0
  - Cut track option
  - Special tapers
  - Mechanical detents
  - Low & extra low torque versions
  - Special switch option

## MECHANICAL SPECIFICATIONS
- Mechanical rotation angle: 235° ± 5°
- Electrical rotation angle: 220° ± 20°
- Torque: 0.4 to 2 Ncm. (0.6 to 2.7 in-oz)
- Stop torque: > 5 Ncm. (>7 in-oz)

## ELECTRICAL SPECIFICATIONS
- Range of values (*)
  - 100Ω ≤ Rn ≤ 5 M (Decad. 1.0 - 2.0 - 2.2 - 2.5 - 4.7 - 5.0)
- Tolerance (**): 100Ω ≤ Rn ≤ 1M Ω ...... ± 20%
  - 1MΩ < Rn ≤ 5M Ω ...... ± 30%
- Max. Voltage: 200 VDC (lin) 100 VDC (no lin)
- Nominal Power: 50°C (122°F) (see power rating curve)
- 0.15 W (lin) 0.07 W (no lin)
- Residual resistance:
- Equivalent Noise Resistance:
- Operating temperature**: -25°C + 70°C (-13°F + 158°F)

## HOW TO ORDER

**STANDARD**

<table>
<thead>
<tr>
<th></th>
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</thead>
<tbody>
<tr>
<td>PT-10</td>
<td>H01</td>
<td>H2.5</td>
<td>A</td>
<td>E= L</td>
<td>01</td>
<td>01</td>
<td>RO = Red</td>
<td>L</td>
</tr>
<tr>
<td></td>
<td></td>
<td>H5</td>
<td>B</td>
<td></td>
<td></td>
<td>02</td>
<td>NE = Black</td>
<td>L</td>
</tr>
<tr>
<td></td>
<td></td>
<td>H2.5P</td>
<td>C</td>
<td></td>
<td></td>
<td>17</td>
<td>AM = Yellow</td>
<td>L</td>
</tr>
<tr>
<td></td>
<td>H10</td>
<td>H5P</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>MA = Brown</td>
<td>L</td>
</tr>
<tr>
<td></td>
<td></td>
<td>V5</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>GR = Grey</td>
<td>L</td>
</tr>
<tr>
<td></td>
<td>V10</td>
<td>V</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>NA = Orange</td>
<td>L</td>
</tr>
<tr>
<td></td>
<td>V11</td>
<td>VP</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>CR = Cream</td>
<td>L</td>
</tr>
<tr>
<td></td>
<td>V13</td>
<td>VJ</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>L</td>
</tr>
</tbody>
</table>

**OPTIONAL EXTRAS**

<table>
<thead>
<tr>
<th>VALUE</th>
<th>TOLERANCE</th>
<th>CUT TRACK</th>
<th>MAGAZINE</th>
<th>FLAMMABILITY</th>
<th>WIPER POSITION</th>
</tr>
</thead>
<tbody>
<tr>
<td>101 = 100Ω</td>
<td>2020 ± 20%</td>
<td>PCI = Initial</td>
<td>T = Non flammable</td>
<td>PM = 50%</td>
<td></td>
</tr>
<tr>
<td>504 = 500 K</td>
<td>3030 ± 30%</td>
<td>PCF = Final</td>
<td></td>
<td>PF = Final</td>
<td></td>
</tr>
<tr>
<td>505 = 5 M</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**NOTES:**
1. *Z* adjustment only available on "H" versions. Rotor "G" only available in purple (shaft/rotor colour "VI").
2. Terminals styles: "P" & "J" are crimped terminals
3. Value Example: Code: 10 100 Ω Numb of zeros
4. Non standard tolerance, upon request.
5. Life: Standard 500 cycles
6. Long life 10000 cycles
7. Life: Standard 500 cycles
8. Non flammable: housing, rotor and shaft.
9. Colour shaft/rotor:
   - Potentiometer without shaft: only rotor
   - Potentiometer with shaft: only shaft
   - Cream colour only available in standard plastic.
10. Low Torque: 0.25 to 1 Ncm (per pot.)
    - Extra Low Torque: 0.1 to 0.4 Ncm (per pot.)
    - Only available on "H" models without crimping
    - No detent option available for low and extra low torque models.

**NOTE:** The information contained here should be used for reference purposes only.

QS 9000 ISO 14001
Certificate Nº 720007 Certificate Nº 65663
This way of ordering should be used for options which are not included in the "How to order" standard and optional extras.

**ROTORS**

**Without shaft**

L = Screwdriver thru hole  M = Hexagonal thru hole  G = Hexagonal thru hole  K = Cross slot thru hole

Wipers positioned at 50%

**With shaft**

X = Adjustable from collector side  W = Adjustable from terminal side

**With thumbwheel**

Y = Adjustable from terminal side  Z = Adjustable from collector side

**MOUNTING METHODS**

V = horizontal mount – vertical adjust

h = vertical mount – horizontal adjust

**STANDARD OPTIONS**

Mechanical Life: 500 cycles
Cut track: No
Detents: None
Packing: Bulk
Non flammable: No
Rotor colour: White
Shaft colour: Natural
Wiper position: Initial
Torque: Standard

**NOTE**

Please note relative terminal positions when ordering non linear tapers.
Options

Positioning (Std. Position = CCW)

P.M.  
50% ±20°

INITIAL CCW

P.F.  
FINAL CW

CUT TRACK  
CCW on-off (A)

A = Initial

E = Final

S = Wiper

CW on-off (E)

Special SWITCH (Upon request)

(Rotor at Final Position)

Mechanical Rotation Angle: 45°

Housing Colour: Green

Tapers

Standard

A = Linear  
B = Log.  
C = Alog.

Special taper example

Power Rating Curve

Tests

Typical Variations

Electrical Life
1.000 h. @ 50°C; 0.15 W

MECHANICAL LIFE (CYCLES)  
500 @ 10 CPM ...15 CPM

TEMPERATURE COEFFICIENT
–25°C; +70°C

THERMAL CYCLING
16 h. @ 85°C; 2h. @ –25°C

DAMP HEAT
500 h. @ 40°C @ 95% HR

VIBRATION (for each plane X,Y,Z)
2 h. @ 10 Hz ... 55 Hz.

NOTE: Out of range values may not comply these results.

Packaging

Boxes

<table>
<thead>
<tr>
<th>Model</th>
<th>Units</th>
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</thead>
<tbody>
<tr>
<td>Without shaft</td>
<td>500 (40 x 85 x 185 mm.)</td>
</tr>
<tr>
<td>With thumbwheel</td>
<td>400 (40 x 85 x 185 mm.)</td>
</tr>
<tr>
<td>With shaft</td>
<td>200 (40 x 85 x 185 mm.)</td>
</tr>
</tbody>
</table>

Magazines for PT-10 h 2.5; h 5
Also crimped term. h 2.5 P

Automatic Insertion

Magazines

<table>
<thead>
<tr>
<th>Magazines</th>
<th>Units per magazine</th>
</tr>
</thead>
<tbody>
<tr>
<td>PT-10H &amp; PT-10V</td>
<td>50 Pieces</td>
</tr>
</tbody>
</table>

Magazines for PT-10 V
Also crimped term. VP

NOTE: Please note relative terminal positions when ordering non linear tapers.