SPECIFICATIONS
Compression Type Load Cell

□ Performance
Rated capacity : 196.1 N{20 kgf} → 980.7 kN{100 tf}
Safe overload : 150 %R.C.(CCP1−20K→100K : 500 %R.C.)
Ultimate overload : 200 %R.C.(CCP1−20K→100K : 500 %R.C.)
Rated output : 3 mV/V ± 0.003 mV/V
Non-linearity : 0.05 %R.O.
Hysteresis : 0.02 %R.O.(CCP1−20K→100K : 0.05 %R.O.)
Repeatability : 0.02 %R.O.(CCP1−20K→100K : 0.05 %R.O.)

□ Electrical
Excitation, recommended : 12 V or less
Excitation, maximum : 20 V
Zero balance : ± 0.03 mV/V
Input resistance : 350 Ω ± 3.5 Ω
Output resistance : 350 Ω ± 5 Ω
Insulation resistance : 5000 MΩ or more (DC 50 V)
(between bridge and main body)

□ Temperature
Temperature range, compensated : -10 °C to 75 °C
Temperature range, safe : -20 °C to 100 °C
Temperature effect on zero balance : 0.03 %R.O./10 °C
Temperature effect on output : 0.03 %LOAD/10 °C

□ Cable
: 10, 4-cores shielded 3 m cable directly attached, Y−crimp type terminal lugs are attached at cable end.

□ Class of protection
: Equivalent to IP64 (Main body only)

□ Materials of element
: Alloy steel

□ Paint
: Painted by epoxy resin
(Munsell 6GY3.5/2 half−polished resemblance color)

□ Durability
: 10⁶ times with rated load applied.

Note) R.O. means Rated Output. R.C means Rated Capacity.
Polarity of output will become plus(+) when the direction of compression load is applied.
If polarity change is required, change with wiring of blue and green(OUTPUT).

Wiring diagram

<table>
<thead>
<tr>
<th>Composition</th>
<th></th>
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<tbody>
<tr>
<td>Main body</td>
<td>1</td>
</tr>
<tr>
<td>Load Button(LBU−B)</td>
<td>1</td>
</tr>
<tr>
<td>(Including O−ring)</td>
<td></td>
</tr>
<tr>
<td>Inspection data sheet</td>
<td>1</td>
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<tr>
<td>Certificate</td>
<td>1</td>
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<tr>
<td>Instruction manual</td>
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Revised in Dec. 1999
**SPECIFICATIONS**

Bearing and Mounting plate attached

**Composition**

<table>
<thead>
<tr>
<th>Item</th>
<th>Quantity</th>
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<tbody>
<tr>
<td>Main body</td>
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</tr>
<tr>
<td>Load button (LBU) (Including O-ring)</td>
<td>1</td>
</tr>
<tr>
<td>Bearing plate (BPA)</td>
<td>1</td>
</tr>
<tr>
<td>Mounting plate (MPA)</td>
<td>1</td>
</tr>
<tr>
<td>Bolt for installation of load cell</td>
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</tbody>
</table>

(Accessory of MPA)

**Outline dimensions**

<table>
<thead>
<tr>
<th>P/N</th>
<th>P/N for Accessories (Options)</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
<th>F</th>
<th>G</th>
<th>H</th>
<th>I</th>
<th>K</th>
<th>Weight (Approx. kg)</th>
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<tbody>
<tr>
<td>CCP1–20K</td>
<td>BPA–1–B</td>
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<td>77</td>
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<td>8</td>
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<td>100</td>
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<td>121.5</td>
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<td>MPA–1A–B</td>
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<td>685</td>
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</table>

The load cell may touch to either side of bearing plate as far as both sides of bearing plate have curved their P/N on them. In case of bearing plate whose touching side is curved, locate the load cell to the center of bearing plate where the P/N has curved.
SPECIFICATIONS

Expansion and Mounting plate attached

Mounting plate

Handle (MPA− □)

Load Cell (Installation of load button downward)

Expansion Plate (EPA− □)

Outline dimensions

<table>
<thead>
<tr>
<th>P/N</th>
<th>P/N for Accessories (Options)</th>
<th>A</th>
<th>□ C</th>
<th>□ D</th>
<th>E</th>
<th>□ F</th>
<th>G</th>
<th>I</th>
<th>K</th>
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<td>790</td>
<td>□ 15</td>
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Specifications and outline dimensions and so on which have printed may subject to change for the purpose of Improvement without notice.

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