DC SIGNAL ISOLATION CONVERTER

**GENERAL SPECIFICATION**
- Construction: Plug-in
- Wiring: M3.5 Screw Terminal
- Isolation: Power to Input to Output1 to Output2
- Adjustment: Zero & Span ± 20% of full scale

**INPUT**
- **DC VOLTAGE**
  - Range: ± 300V Max
  - Resistance: 20KΩ Min at ± 1V
  - 1MΩ Min at ± 10V
- **DC CURRENT**
  - Range: 50mA Max
  - Resistance: 250Ω Max

**OUTPUT**
- **DC VOLTAGE**: ± 12V Max
- **Load Resistance**

<table>
<thead>
<tr>
<th>Output</th>
<th>Resistance</th>
</tr>
</thead>
<tbody>
<tr>
<td>0 ~ 10mV</td>
<td>1KΩ or more</td>
</tr>
<tr>
<td>0 ~ 100mV</td>
<td>1KΩ or more</td>
</tr>
<tr>
<td>0 ~ 1V</td>
<td>1KΩ or more</td>
</tr>
<tr>
<td>0 ~ 5V</td>
<td>2KΩ or more</td>
</tr>
<tr>
<td>0 ~ 10V</td>
<td>4KΩ or more</td>
</tr>
<tr>
<td>-10V ~ -10V</td>
<td>4KΩ or more</td>
</tr>
</tbody>
</table>
- **DC CURRENT**: 0 ~ 20mA
- **Load Resistance**

<table>
<thead>
<tr>
<th>Output</th>
<th>Resistance</th>
</tr>
</thead>
<tbody>
<tr>
<td>0 ~ 1mA</td>
<td>15KΩ or less</td>
</tr>
<tr>
<td>0 ~ 10mA</td>
<td>1.5KΩ or less</td>
</tr>
<tr>
<td>0 ~ 20mA</td>
<td>750Ω or less</td>
</tr>
<tr>
<td>1 ~ 5mA</td>
<td>3KΩ or less</td>
</tr>
<tr>
<td>4 ~ 20mA</td>
<td>750Ω or less</td>
</tr>
</tbody>
</table>

- Display range: -999~1999, 3 1/2 digit (available decimal point)

**INSTALLATION**
- Operating temperature: -5°C ~ 55°C
- Operating humidity: 90%RH Max (none condensing)
- Power supply
  - AC: 110V or 220V/60Hz ± 10%, approx 3VA
  - DC: 18V ~ 30V ± 10%, approx 3VA
- Power selection: AC 110V/220V Switch
  - in the back plane
- Mounting: Wall or DIN rail

**PERFORMANCE**
- Accuracy: ± 0.1%
- Temp coefficient: ± 0.015%/°C
- Response time: 0.5 Sec or less (0~90%)
- Insulation resistance: 100MΩ or more
  - with 500VDC (Input/Output/Power)
- Dielectric strength: 1500VAC at 1 minute
  - (Input to Output to Power)

The model CDI-DSC is an DC signal isolation converter that provides isolated proportional DC outputs.

**ORDERING CODE SELECTION**

**MODEL TYPE**
- 1: 1 Output
- 2: 2 Output
- A: 1 Output with display
- B: 2 Output with display

**INPUT**
- **VOLTAGE**
  - 1: 0~10mV
  - 2: 0~100mV
  - 3: 0~1V
  - 4: 0~5V
  - 5: 0~10V
  - 6: 1~5V
  - 7: 10~10V
  - 0: Other special spec.

**OUTPUT 1**
- **VOLTAGE**
  - 1: 0~10mV
  - 2: 0~100mV
  - 3: 0~1V
  - 4: 0~5V
  - 5: 0~10V
  - 6: 1~5V
  - 7: 10~10V
  - 0: Other special spec.

**OUTPUT 2**
- N: no output2
- The codes are the same as Output1

**POWER**
- X: AC 110V or 220V for 50/60Hz
- Y: DC 24V
- Z: Other special power
DC SIGNAL ISOLATION CONVERTER

MODEL CDI-DSC

CDI TECH CO., LTD.

8 PIN CONNECTION DIAGRAM

11 PIN CONNECTION DIAGRAM

DEMMENSION

8PIN

11PIN

CHUMDAN INSTRUMENT & TECHNOLOGY CO., LTD.