This compact plug-in type converter (isolator) provides signal output which is mutually isolated between input, output and power-supply. It amplifies and converts various kinds of signal with isolation to use in the integrated instrumental control system. It is highly effective as noise countermeasures.

**Features**

- Fine zero & span adjustment by 15 turn trimmer
- Zero & span adjustment ±10% full scale
- Safe design by dielectric strength of 3000Vac
- Compatible with 30Vdc power supply voltage
- 5 years warranty, long life
- CE approved

**Specifications**

**Input signal**
- DC current / voltage

**Output signal**
- DC current / voltage

**Accuracy**
- ±0.1% FS (at 23°C)

**Response time**
- Approx. 25ms (0 to 90%)

**Allowable load**
- Current output: 15V or less of voltage drop between output terminal
- Voltage output: Load current 5mA or less
  - For 1V FS or less of output the current is 1µA or less

**Zero & span adjustment**
- ±10% FS (15 turn trimmer)

**Operating temperature range**
- -5 to +65°C

**Operating relative humidity**
- 95% or less (Non-condensing)

**Storage temperature range**
- -10 to +60°C

**Isolation**
- Between input, output, and power supply

**Insulation resistance**
- 100MΩ or more with 500Vdc megger

**Dielectric strength**
- 3000Vac for 1 minute between power supply and input/output terminal,
  - 2000Vac for 1 minute between input and output terminal

**Power consumption**
- Approx. 4.5VA (AC), Approx. 60mA (DC)

**Power supply variation**
- ±0.1% FS (within the range of rated voltage)

**Dimensions**
- 84(H) x 22(W) x 106.5(D)mm

**Weight**
- Approx. 135g

**Structure**
- Plug-in (Body part and socket part)

**Connection**
- M3 SEMS screw part of the base socket (Tightening torque 0.6N·m)

**Case color and material**
- Ivory, ABS resin, flame retardant grade UL94V-0

**EMC directive**
- EN61326-1, EN61010-1, EN50581
  - Installation category : II, Pollution degree : 2

**Rated altitude**
- 2000m or less

Contact us for other than the above

Current input : ±20mA, Span : 10µA to 20mA
Voltage input : ±300V, Span : 10mV to 300V

Current output 20mA or less
Voltage output 10V or less

- CE approval do not adapt input range code 99 and output range code S.
- CE approval do not adapt when power supply is 10.8Vdc to 30Vdc.

**Terminal connections**

<table>
<thead>
<tr>
<th>No.</th>
<th>Symbol</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>INPUT</td>
<td>- Input</td>
</tr>
<tr>
<td>4</td>
<td>NC</td>
<td>No connection</td>
</tr>
<tr>
<td>5</td>
<td>NC</td>
<td>No connection</td>
</tr>
<tr>
<td>9</td>
<td>OUTPUT</td>
<td>- Output</td>
</tr>
<tr>
<td>12</td>
<td>OUTPUT</td>
<td>- Output</td>
</tr>
<tr>
<td>13</td>
<td>POWER</td>
<td>U(+)</td>
</tr>
<tr>
<td>14</td>
<td>POWER</td>
<td>V(+)</td>
</tr>
</tbody>
</table>

**Ordering code**

WSP-DS - [ ] [ ] [ ] [ ]

**Contact us for other than the above**

Current input : ±20mA, Span : 10µA to 20mA
Voltage input : ±300V, Span : 10mV to 300V

Current output 20mA or less
Voltage output 10V or less

- CE approval do not adapt input range code 99 and output range code S.
- CE approval do not adapt when power supply is 10.8Vdc to 30Vdc.