

This slim plug-in, high-speed response 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
- ★ Space-saving by thin case and close contacted mounting
- ★ Safe design by dielectric strength of 3000Vac
- ★ Easy maintenance by plug-in structure
- ★ CE approved

Ordering code

WGP-DE - - -

| Code | Input | Input Resistance |
|------|--|------------------|
| 10 | 0 to 10mVdc | 1MΩ |
| 11 | 0 to 100mVdc | 1MΩ |
| 12 | 0 to 1Vdc | 1MΩ |
| 13 | 0 to 5Vdc | 1MΩ |
| 14 | 1 to 5Vdc | 1MΩ |
| 15 | 0 to 10Vdc | 1MΩ |
| 16 | 0 to 50mVdc | 1MΩ |
| 17 | 0 to 60mVdc | 1MΩ |
| 20 | ±10mVdc | 1MΩ |
| 21 | ±50mVdc | 1MΩ |
| 22 | ±100mVdc | 1MΩ |
| 23 | ±1Vdc | 1MΩ |
| 24 | ±5Vdc | 1MΩ |
| 25 | ±10Vdc | 1MΩ |
| 30 | 0 to 10μAdc | 1kΩ |
| 31 | 0 to 100μAdc | 100Ω |
| 32 | 0 to 1mAdc | 100Ω |
| 33 | 0 to 10mAdc | 50Ω |
| 34 | 0 to 16mAdc | 50Ω |
| 35 | 0 to 20mAdc | 50Ω |
| 36 | 4 to 20mAdc | 50Ω |
| 40 | ±1mAdc | 100Ω |
| 41 | ±20mAdc | 50Ω |
| 99 | Contact us for other than the above Current input : ±50mA Span : 10μA to 50mA | |
| * | | |

| Code | Output | Allowable Load Resistance |
|------|--|---------------------------|
| A | 4 to 20mAdc | 750Ω or less |
| B | 1 to 5mAdc | 3kΩ or less |
| C | 2 to 10mAdc | 1.5kΩ or less |
| D | 0 to 1mAdc | 15kΩ or less |
| E | 0 to 10mAdc | 1.5kΩ or less |
| F | 0 to 16mAdc | 937Ω or less |
| G | 0 to 20mAdc | 750Ω or less |
| H | 1 to 5Vdc | 1kΩ or more |
| J | 0 to 10mVdc | 10kΩ or more |
| K | 0 to 100mVdc | 100kΩ or more |
| L | 0 to 1Vdc | 1kΩ or more |
| N | 0 to 5Vdc | 1kΩ or more |
| P | 0 to 10Vdc | 2kΩ or more |
| R | ±10Vdc | 2kΩ or more |
| S | Contact us for other than the above Current output 20mA or less Voltage output 10V or less | |
| * 1 | | |

| Code | Power Supply |
|------|----------------------------|
| 1 | 100 to 120Vac ±10% 50/60Hz |
| 2 | 200 to 240Vac ±10% 50/60Hz |
| 3 | 24Vdc ±10% |
| 8 | 110Vdc ±10% |

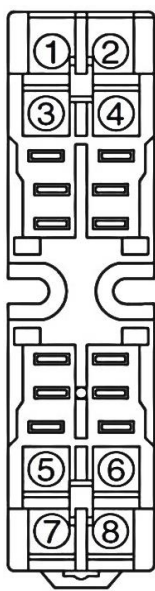
* ... Contact us for 48Vdc power supply.

* 1 ... CE approval do not adapt input range code 99 and output range code S.

Specifications

| | |
|-----------------------------|---|
| Input signal | DC current / voltage |
| Output signal | DC current / voltage |
| Accuracy | ±0.1% FS (at 23°C) |
| Response time | Approx. 120μs (0 to 90%) |
| Frequency response | Approx. 3.3kHz or more (Sine wave input : -3dB) |
| Allowable load | Current output 15V or less of voltage drop between output terminal Voltage output Load current 2mA or less *1mA if output is 1V FS *1μA or less if the output is less than 1V FS |
| Zero & span adjustment | ±10% FS (15 turn trimmer) |
| Operating temperature range | -5 to +55°C |
| Operating relative humidity | 90% or less (Non-condensing) |
| Storage temperature range | -10 to +60°C |
| Temperature coefficient | ±0.015% FS of span per °C |
| Isolation | Between input, output, and power supply |
| Insulation resistance | 100MΩ or more with 500Vdc megger Between input, output, and power supply terminal |
| 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. 4.0VA (AC), Approx. 60mA (DC) |
| Power supply variation | ±0.1% FS (within the range of rated voltage) |
| Dimensions | 105(H) X 25.6(W) X 136.5(D)mm |
| Weight | Approx. 200g |
| Structure | Plug-in (Body part and socket part) |
| Connection | M3.5 SEMS screw part of the base socket (Tightening torque 0.8N·m) |
| Mounting | DIN rail or wall surface |
| Case color and material | Ivory, ABS resin, flame retardant grade UL94V-0 |
| EMC directive | EN61326-1, EN61010-1, EN IEC 63000 Installation category : II, Pollution degree : 2 |
| Rated altitude | 2000m or less |

Terminal connections



| No | Symbol | Description |
|----|--------|---------------|
| 1 | INPUT | + |
| 4 | | - |
| 5 | NC | No connection |
| 8 | NC | No connection |
| 9 | OUTPUT | + |
| 12 | | - |
| 13 | POWER | U(+) |
| 14 | | V(-) |

* Specification is subject to change without notice