# 【WP30 voltage/current/distribution isolating transformation module】

WP30 voltage/current/distribution isolating transformation module is a kind of miniaturization inserted structural converter, which have three isolations for power terminal, input signal and output signal. and input/output signal employs magnetic isolation, have many features such as high accuracy, good linearity, easy debugging, stable and reliable and so on, suitable use to remove signal interference and uncommon grounding transfer field, especially adaptable to isolation transmission between sensor signal and back-level instrument.

**> Main technical parameter**

input signal: input (4～20) mA, 0～10 mA, (1～5) V, 0～5 V, 0～10 V or distribution input (the detail the order forms shall prevail, if need other input, user can explaine it while ordering)

input resistance: > 250 KΩ (voltage input), 250 Ω (current input)

output • No. 1: voltage or current No. 2: voltage or current

permission load resistance: < 250 Ω (when voltage ouput) 0～600Ω (when current output)

accuracy: ±0.5% FS or±0.2% FS

isolation: isolate each other between input and output

power source: AC power supply AC 90～265 V or AC 220 V

DC power supply DC24 V ±10% (the random wiring diagram shall prevail)

power consumption when 220V AC, ≤3W, when 24 V DC, ≤300 mA

environment temperature: 0～55℃

relative humidity: 5～99% RH (no condensate)

Insulating resistance: between each terminal and grounding terminal 300 MΩ/500V DC

Insulating strength: between power terminal and grounding terminal 1500V AC,for 1 minute

between Input/output terminal and grounding terminal 500V DC,for 1 minute.

Construction: miniaturization inserted structure color manser N4.0

Weight: main body: approximately 180 g socket: approximately 80 g

Maintenance: under the installation conductor configuration state, main body may be change

Adjusting zero, full range: precision potentiometer on the instrument's panel:

1 adjusting zero: No. 1 output zero minitrim

1 adjusting full: No. 1 output full range mini trim

2 adjusting zero: No. 2 output zero mini trim

2 adjusting full: No. 2 output full range mini trim

➢ **Outline drawing**

**> Type spectrum table**

| Model | | | | | | | Explanation |
|---|---|---|---|---|---|---|---|
| **WP-30** | □ | □□ | □ | □ | -□ | □ | |
| **Input channel** | 1 | | | | | | Single-channel input |
| | 2 | | | | | | Double channel input |
| **Input type** | | DL | | | | | Distributor |
| | | IC | | | | | Current/voltage transformation module |
| | | TI | | | | | Other type transformation module |
| **First channel Output mode** | | | 1 | | | | (1～5) V |
| | | | 2 | | | | (4～20) mA |
| | | | 3 | | | | (0～5) V |
| | | | 4 | | | | (0～10) mA |
| | | | 5 | | | | Special specification |
| **Second channel Output mode** | | | | 0 | | | No |
| | | | | 1 | | | (1～5) V |
| | | | | 2 | | | (4～20) mA |
| | | | | 3 | | | (0～5) V |
| | | | | 4 | | | (0～10) mA |
| | | | | 5 | | | Special specification output |
| **Input code** | | | | | □ | | See “input signal type table” |
| **Supply mode** | | | | | | T | AC (90～265) V switch power (can be omitted) |
| | | | | | | W | DC24 V supply |

Option as an example: WP-301IC2-12; WP-302IC22-12

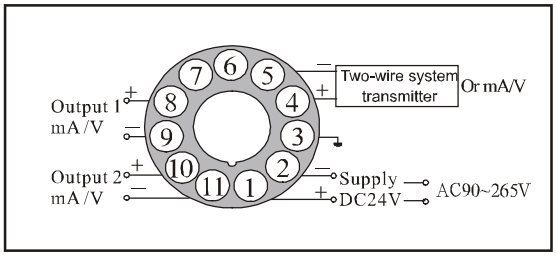
**> Input type table**

| Code | Input type |
|---|---|
| **V** | DC (1～5) V, DC 0～5 V or AC voltage input, please noted it while ordering |
| **I** | DC (4～20) mA, DC (0～10) mA or AC (0～5) A, please noted it while ordering |
| **K** | Others type input, please noted it while ordering |

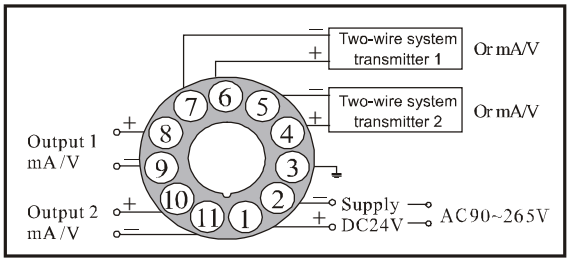
Note: only have one channel input and one channel output for AC voltage or current input signal and output signal.

- **Wiring diagram**

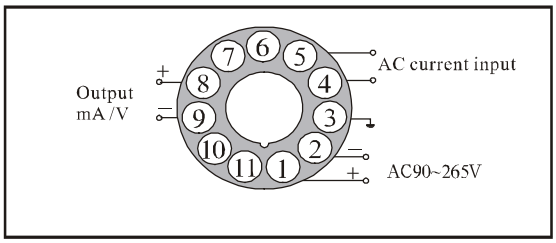
**>> Wiring diagram for 301 voltage/current/distribution**




**>> Wiring diagram for 302 voltage/current/distribution**



**>> Wiring diagram for 301 AC current**




**>> Wiring diagram for 301 AC voltage**