

## I. BASIC CHARACTERISTICS OF THE PRODUCT

### Analog output characteristics

- Basic functions  
DC voltage DCV, DC current DCI
- The maximum output accuracy is 0.05% and the output display is 5 digits.
- DCI output includes active output (internal 24V power supply), and passive output (external 24V power supply).
- mA is equipped with the percentage display mode.
- Manual step output includes: 25% stepping and 100% stepping.
- Output current 0 - 20mA or 4 ~ 20mA is optional.
- Automatic waveform output includes: automatic stepping, sawtooth wave and triangular wave and (the automatic waveform operation parameters can be configured).
- Internal 24V loop power is provided.
- Auto power-off, backlight, flashlight
- LCD display with a white backlight.
- It has a LED flashlight for lighting.
- User-optional large-suction magnetic sling is provided.



## II. GENERAL CHARACTERISTICS OF THE PRODUCT

- **Electrical safety** : En61010 - 1:2001  
**Withstand voltage** : AC3540V(50 / 60Hz) / 5 seconds between terminal and housing.  
**Insulation impedance** : DC1000V / 100MΩ or more between terminal and housing.
- **Electromagnetic compatibility (EMC)** : EN61326-1:2006  
Performance criterion 2 is met, i.e. the function and performance are temporarily reduced or lost, but can be recovered by themselves.
- **Protection grade** : IP40.
- **Vibration and fall** : IEC 60068-2-64 : 2008, IEC 60068-2-32 : 2008  
• Random, 2g, 5 - 500Hz; 1m drop test.
- CE certification.
- **Instrument display and key** : Segment code LCD display, white backlight, Rubber key is adopted
- **Power supply** : 3 pcs of AA alkaline batteries for power supply
- Dimension and weight.

Preliminary Data

## III. STANDARD ACCESSORIES

Industrial test conductor: 1 pair, AA alkaline battery: 3 pcs,  
User Manual, Fuse: 2 items

## IV. OPTIONAL ACCESSORIES :

magnetic sling

All Specifications are subject to change without prior notice

## V. BASIC FUNCTION AND PERFORMANCE OF THE PRODUCT (TECHNICAL INDEX)

Analog output function [Applied within one year after calibration, 23°C ± 5°C, 20 - 70% RH, accuracy = ± (% set value + % reading)]

| Output function | Range | Output range       | Resolution | Accuracy    | Remarks:  |
|-----------------|-------|--------------------|------------|-------------|---|
| DC voltage DCV  | 10V   | -1.000V ~ 11.000V  | 0.001V     | 0.05% + 2mV | Maximum output current : 5mA  |
| DC current DCI  | 30mA  | 0.000mA ~ 30.000mA | 0.001mA    | 0.05% + 4μA | At 20 mA, the maximum load is 1000Ω<br>Upon transmitter simulation, the external loop power supply is 5-28V |

### OTHER CHARACTERISTICS :

- Uncertainty includes standard uncertainty, hysteresis, nonlinearity, repeatability, and typical long-term stability over the period mentioned (K = 2).
- Maximum applied voltage at input end: about 30Vpk; Maximum applied current at input end: about 25mA
- Load characteristics : capacitive load ≥ 0.01uF (DCV / OHM / TC / RTD / FREQ); Inductive load ≥ 0.01uF 100uH (DCA)  
Output load affects DC mV (0.001% full scale + 1nV)/mA; DCV (0.001% full scale + 1nV) /mA
- The temperature range of internal temperature compensated sensor RJC is -10 to 50C. The temperature measurement accuracy at 18 to 28C is ± 0.5C, and the temperature measurement accuracy at other temperature is ± 1C. Cold end compensation time is 10S / times.
- Temperature coefficient : 0.1 × basic accuracy / °C (temperature range < 18°C or > 28°C)
- Coefficient : 0.1 × basic accuracy /°C (temperature range: <18°C or >28°C)

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