ChenYang Technologies GmbH & Co. KG

# DC digital voltage-current meter CYVAM-DC303

The CYVAM-DC303 is a 6.5-digit, high-performance digital voltage-current meter. It is mainly used for high precision measurement of DC voltage and DC current in low voltage (≤36V) systems. With its Modbus-RTU communication interface RS232 and switching output interface, it can be easily embedded into the user's system.


With good long-term stability and small temperature coefficient, this voltage-current meter is very suitable for voltage measurement of DC resistors and calibration of voltage and current sensors. The voltage measuring accuracy is ±0.01% and the current measuring accuracy is ±0.05%.

## Features

- 8-bit high brightness LED display
- Automatic range switching
- Manual lock and peak hold function
- Adjustable sampling speed and filtering intensity
- Modbus-RTU support (RS232 interface)
- Reading rate up to 600 readings per second
- Two switching interfaces (OC output)
- Equipped with eh-me software for displaying measuring waveforms and recording measuring data

## Technical Data

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|---|---|
| Voltage measurement range: | 0 ~ 4VDC, 0 ~ 30VDC |
| Current measurement range: | 0 ~ 30mADC, 0 ~ 300mADC |
| Measurement uncertainty: | 0 ~ 30VDC: ±(0.01% + 0.005%) |
| (% of reading + % of range) | 0~4VDC: ±(0.01% + 0.005%) |
| | 0~300mADC: ±(0.05% + 0.005%) |
| | 0~30mADC: ±(0.02% + 0.005%) |
| Power supply: | 220V ± 10%, 50~60Hz |
| A/D Measuring method: | Σ-Δ ADC |
| A/D integration nonlinearity: | 5ppm (typical) |
| A/D conversion speed: | 5 ~ 600 times/sec |
| DC voltage channel input resistance: | 3.22MΩ (±1%) for all ranges |
| DC voltage channel input protection: | 36V for all ranges |
| DC current channel input resistance: | 1Ω (±1%) for all ranges |
| DC current channel input protection: | 330mA/250VAC quick blow fuse |
| Operating temperature range: | -10°C ~ 40°C |
| Storage temperature: | -25°C ~ 55°C |
| Relative Humidity: | 30 ~ 70% |
| Dimensions: | 210 x 180 x 70mm (not including handle size) |
| Unit weight: | 800g |
| Warranty: | 12 months from date of shipment |

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