

UNIVERSAL MULTI-CHANNEL MEASURING DEVICE - **CANYSE 801**



CANYSE 801 is an universal multi-channel measuring device, that combines the features of various specialized measuring devices:

- Sensor signal transducer
- Meter of different physical quantities (temperature, humidity, force, displacement, pressure, ...)
- Precision multimeter for voltage, current and resistance
- Data logger
- Portable calibrator for voltage and current

Device allows direct connection of many sensors of physical quantities, as well as all types of probes, with voltage and current outputs. It contains all the necessary current and voltage sources for excitation and power supply for different sensors and probes. Data are displayed and stored in real engineering units. Device achieves precision of laboratory multimeters and calibrators at a significantly lower price.

Fields of application:

- R&D departments
- Testing
- Production and Quality Assurance
- Maintenance and servicing
- Measuring laboratories
- Monitoring of environmental parameters



Key features:

- 3.5 "color LCD touch screen
- 8 measuring channels
- Measuring ranges from $\pm 4\text{mV}$ to 2.5V
- High resolution and accuracy of measurements
- High immunity to interference
- 4 independently adjustable voltage sources 0.1V to 3V
- 4 independently adjustable current sources 100 μA to 20mA
- 2 independently adjustable power supplies 5V to 13.5V for external meters
- Conversion of the measured voltage to engineering units with 3rd degree polynomial
- Arithmetic operations between channels
- Fully adjustable display data format
- Data storage on SD memory card
- Adjustable period of storage of the data, from 1 second to 24 hours
- No special software is required for the settings and data transfer to PC
- Recording of data in the format "csv", display and processing in Excel
- Copy data to the PC via USB
- Battery powered (Lilon rechargeable battery) or power adapter
- Robust industrial housing for hand-held or desktop use (203 x 98 x 35 mm)

Operating conditions:

Temperature range: -20 °C to + 50 °C

Humidity: 10% to 95% (non-condensing)

Measuring inputs:

Input resistance: >10G Ω

AD conversion: 17bit

Noise level: <1 μV

Input setting	Measuring range	Accuracy (22°C±2°C)	Temperature coefficient
Single ended	2.5V	$\pm(100\mu\text{V} + 0.005\%$ reading)	$\pm 10\text{ppm}/^\circ\text{C}$
Diferential	$\pm 4\text{mV}$, $\pm 9\text{mV}$, $\pm 19\text{mV}$, $\pm 39\text{mV}$	$\pm(4\mu\text{V} + 0.01\%$ reading)	$\pm 5\text{ppm}/^\circ\text{C}$
Diferential	$\pm 78\text{mV}$, $\pm 156\text{mV}$, $\pm 312\text{mV}$, $\pm 1.25\text{V}$	$\pm(0.005\%$ range + 0.01% reading)	$\pm 5\text{ppm}/^\circ\text{C}$

Voltage and current sources:

Output	Setting step	Accuracy (22°C±2°C)	Temperature coefficient
Voltage 0.1 do 3.0V	0.1V	$\pm(100\mu\text{V} + 0.01\%$ reading)	$\pm 10\text{ppm}/^\circ\text{C}$
Current 0.1mA do 2mA	0.1mA	$\pm(100\text{nA} + 0.01\%)$	$\pm 15\text{ppm}/^\circ\text{C}$
Current 3mA do 20mA	1mA	$\pm(1\mu\text{A} + 0.01\%)$	$\pm 15\text{ppm}/^\circ\text{C}$



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