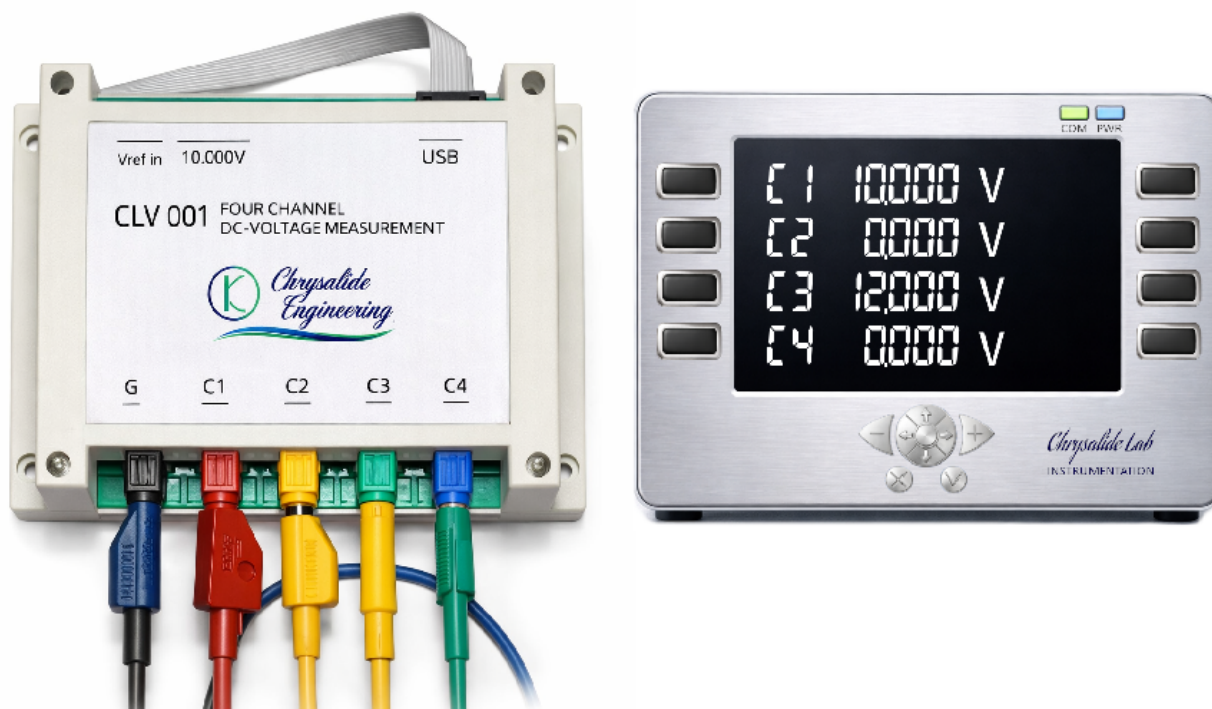


CLV001

4-Channel 0-10V / 0-30V DC USB Supplied Voltmeter
Computer Real Time Monitoring



Compact 4-channel DC voltage monitoring instrument with USB connectivity and PC Real Time visualization software.

The **CLV001** is designed for Hobby, Education and Prototyping of electronic and embedded systems, boards, applications and sensors. It provides Real Time monitoring of 4 input channels. Input C1 and C2 are working at 10Vdc. Inputs C3 and C4 30Vdc.

Key Features

- 4 independent voltage input channels
- 2 × 0–10 VDC inputs
- 2 × 0–30 VDC inputs
- 1 × 5 VDC Vusb output
- USB powered instrument
- 1 MΩ input impedance
- 4 mm banana connectors
- Real-time digital display (computer software)

Applications

- Prototyping of USB powered supply boards and controllers
- Voltage rails supply monitoring
- Analog Voltage monitoring
- Analog signal measurement (0–10 V sensors)
- Electronics prototyping and test bench
- Educational laboratories
- Multi-channel voltage monitoring

Electrical Specifications

Number of channels	4
Input ranges	$2 \times 0-10 \text{ VDC} / 2 \times 0-30 \text{ VDC}$
Input impedance	1 M Ω
ADC resolution	10 bits
Sampling	20 FPS
Absolute accuracy	$\pm 30 \text{ mV}$ (0-10V) and 50 mV (0-30V)
Measurement type	DC voltage
Channel isolation	No
USB Isolation	No
Input protection	TVS protection
Resolution	$\approx 10 \text{ mV}$ (10 V channels), $\approx 30 \text{ mV}$ (30 V channels)

Interface

Interface	USB (serial communication)
Power supply	USB powered
Software	CLS Software application (included)
Operating systems	Windows

Mechanical Specifications

Dimensions	145 × 90 × 45 mm
Weight	~300 g
Enclosure	Plastic
Mounting	Desktop / DIN rail

Package

USB Dongle	Serial Transceiver which drives the CLV001 Power and Communication
IDC Cable	50 cm cable, interconnect CLV001 instrument to USB Port Dongle
Cables	6 x 50 cm 4mm cable with crocodile end

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