

Current Source – CS 101



Description:

EDUCE TECH INSTRUMENTS has introduced Compact and easily hand portable Single Phase Current Source (CS 101). The instrument generates the Current according to the user requirements that can be easily adjustable through the multi turn knobs and the High/Low Current Selection adjustment through the rotary switch for better stable output. In-Built Timer available for relay testing applications. ON/OFF Switch is provided for Output Current. A LCD display is provided for the measurement. The system operates on 230VAC Single Phase Power supply.

Principle:

The System uses digitally synthesized sinusoidal waves with analog amplification for the lower Total Harmonic Distortion (THD) and for the higher accuracy. The Output waveform has 60dB fundamental frequency above the noise floor on the full-scale reading and the stability of better than 0.2%.

Application:

The Instrument is designed for Current Calibration, Testing of Industrial Devices like Over Current Relays, CT's, Control panel etc.

Specifications:

INPUT:

Voltage: 230VAC +/- 10% @ Max 1Amps.

Frequency: 50Hz.

OUTPUT:

Current:

CS 101 0110

$I_{out} = 1\text{Amps}, 5\text{Amps}, 10\text{Amps} @ 30\text{VA}.$

+/- 200mA Adjust through ten turn POT.

CS 101 2040

$I_{out} = 20\text{Amps}, 30\text{Amps}, 40\text{Amps} @ 30\text{VA}.$

+/- 500mA Adjust through ten turn POT.

CS 101 2060

$I_{out} = 20\text{Amps}, 30\text{Amps}, 40\text{Amps}, 50\text{Amps}, 60\text{Amps} @ 30\text{VA}.$

+/- 2000mA Adjust through ten turn POT.

Stability: 0.1% @ FS

Frequency: 50 Hz.

Distortion: <1% THD @ full scale.

PROTECTIVE CIRCUITS:

INPUT: 3Amps Fuse.

OUTPUT: Thermal - Internal temperature sensor prevents heat damage.

CONTROLS/INDICATORS:

INPUT:

Power ON/OFF Switch with RED Light Illumination.

OUTPUT:

Current ON/OFF Toggle Switch.

Current Range Selection: Rotary switch.

Current fine tune Adjust: Ten Turn Potentiometer.

Measurement: 1X16 Characters LCD Display for Measuring output Current

Optional timer with contact sensor for Relay trip testing

MECHANICAL SPECIFICATIONS:

Dimensions: 330mmX205mmX200mm. (LxWxH)

Weight: ~ 8 Kgs (Slightly vary with Maximum current version)

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