



- Up to 100A DC • 75A AC Output
- Stackable for higher currents
- Calibration of up to 2000A clamps using 50 turn coil
- Ideal for calibrating high power current shunts & direct reading current meters
- Low noise linear mosfet technology
- 0.08% Accuracy
- Requires 2000 Series calibrator and Virtual Front Panel / ProCal software

Introduction

Calibration of higher ranges on clamp meters, direct current reading meters and high current shunts is beyond the output power of multi product calibrators.

The EA012 is a powerful linear transconductance amplifier designed exclusively for use with the 2000 Series calibrators which provides a cost effective solution to calibrating high currents instruments.

Connecting to the 2000 Series calibrator using the feature connector, the EA012 extends the output current range to 100A DC / 75A AC - higher currents are available by paralleling EA012's as required to give the current output needed.

Use of linear technology throughout gives a very low noise output completely free from any switching spikes. The latest in high power mosfet design ensures reliable and stable operation even into inductive loads. Long term accuracy is assured by using precision foil resistors and a custom manufactured internal shunt.

Clamp Meter Calibration using a Clamp Coil

The EA012 transconductance amplifier provides a solution for the calibration of high current clamp meters. Clamp meters up to 2000A can easily be calibrated using a 50 turn coil at 40A.

Transmille manufacture a special coil, the 2901B, which is based on the 2901A 50 turn coil with the addition of a thermal cutout sensor.



Care should be taken with any other coil to ensure it is capable of withstanding the heat generated at higher currents.

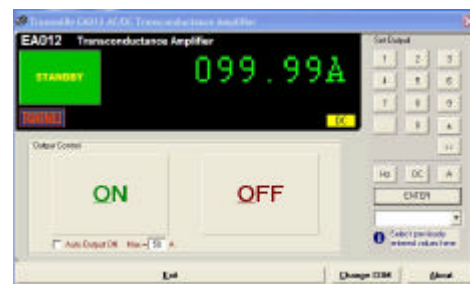
'Direct Reading' Current Meter Calibration



The EA012 can also calibrate direct reading current meters such as the Megger Flexiclamp or moving iron type meters. These types of instrument can only be calibrated using high current outputs.

Virtual Front Panel

Control using PC



The EA012 is easy to control using the dedicated virtual front panel software. Simply enter current values using the keypad or choose from a list of most recently used values.

To avoid accidental selection of higher currents, the user can set a maximum current limit. The VFP also monitors the amplifier for thermal / compliance to ensure correct operation.

Can also be used with Transmille ProCal software for automated calibration.

Specifications

AC Output	: 70A maximum
DC Output	: 100A Maximum
AC / DC Accuracy	: 0.08%
Compliance Voltage	: 6V Pk-Pk
Indicators	: Output On Power On Over Temperature Over Compliance
Frequency	: DC to 400Hz
Output Connections	: 2x Screw terminals
Mains Supply	: 110V/240V @ 50Hz/60Hz
Power Consumption	: 400W
Cooling	: Internal fan
Control Interface	: 9 Pin 'D' type connector (connection to 2000 Series)
Dimensions	: 14cm x 43cm x 46cm
Weight	: 25kg