

# 3-Phase Power Test Simulator IMA315

**For testing of generator guards and protection units**



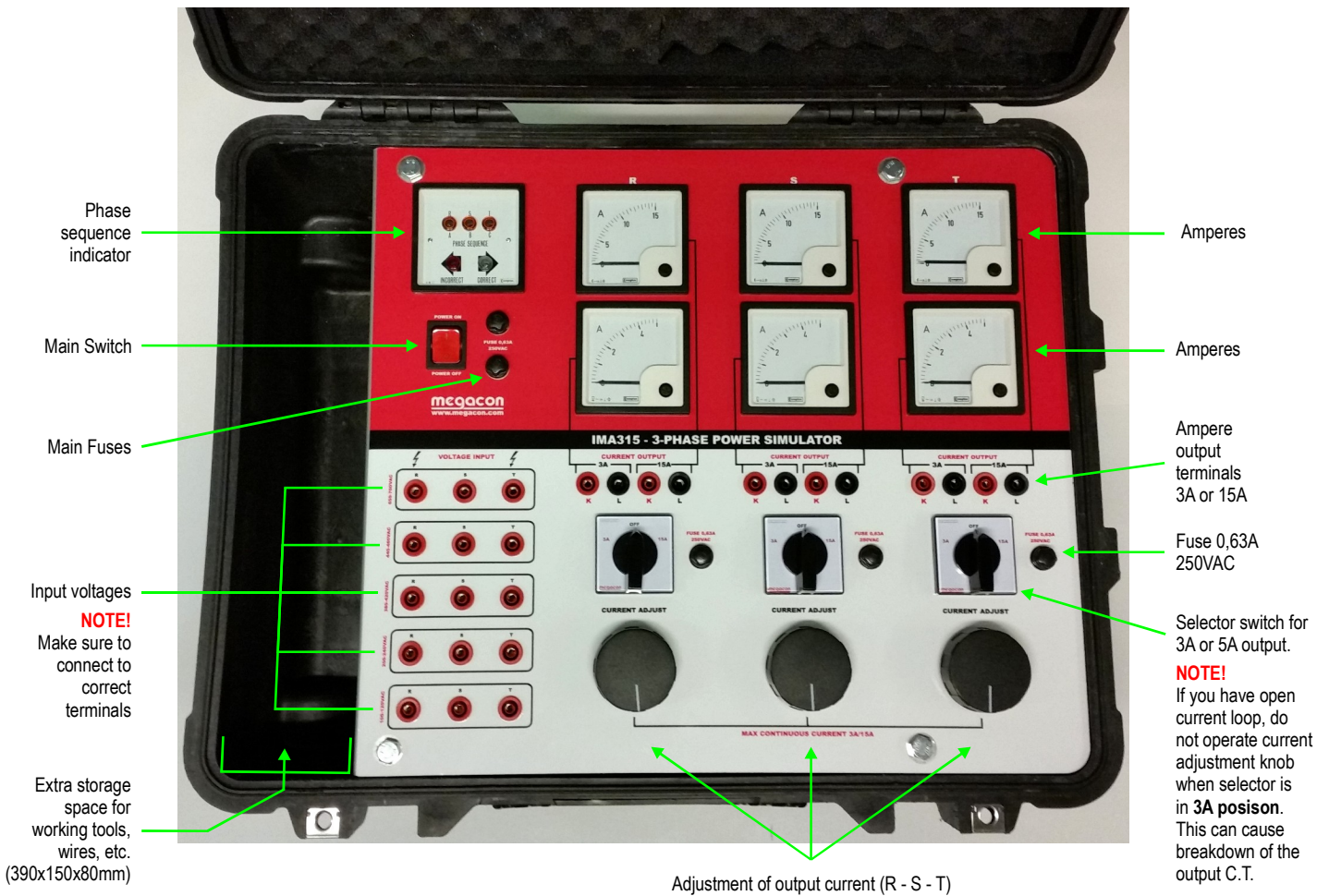
INTRODUCTION

IMA315 is a 3-phase current simulator in the Megacon range of transportable test equipment.

This unit is designed for general testing of Megacon's or other brands range of protective guards and controllers for generator and power plant automation systems (current, current differential, overcurrent and short circuit, active (kW) and reactive (VAR) power etc).

IMA315 has multiple input supply voltage range from 100VAC and up to 690VAC and individual current output, 0-3A & 0-15A for each phase (R - S - T).

- The phase sequence indicator shows that current outputs have correct sequence. If LED's shows INCORRECT, please change your input wiring.
- All current outputs are galvanically isolated from the mains supply.
- IMA315 Unit have a cos phi factor of app. 0,75.



The MEGACON policy is one of continuous improvement, consequently equipment supplied may vary in detail from this publication.



**GENERAL**

- Be sure to connect the input voltage to the correct input terminals.
- The output current is directly related to the phase sequence of the input phases.
- Power input to **IMA315** is to be provided from 3 or 4 wire system, 30-70Hz.

**Fuses**

Ceramic fuses on unit front protect the supply inputs.

**Phase Sequence**

**IMA315** is fitted with a phase-sequence indicator. Correct phase sequence is a precondition for measurement of active power and reactive power.

**Outputs**

Each output current terminal's phase reference (R-S-T) and the direction of current flow (K: supply, L: load) is clearly marked.

However, if the input sequence is for example S-T-R, you have the correct phase sequence but output current will also come out in the same sequence S-T-R.

The current outputs are individually adjustable 0-3A or 0-15A (selectable on selector switch)

**Variable Current Output**

The maximum current to be drawn from any of the current outputs largely depends on the ohmic resistance of the external current loop. The current terminals are rated 20A, and 4mm plugs may be flipped into the center of the terminal.

Use large size wires for high current levels to reduce ohmic losses. (Recommended wire is minimum 2.5mm<sup>2</sup>)

**Transit / Storage Container**

**IMA315** is built into a solid Pelicase suitcase P1560M with integrated wheels and handle for easy carriage and safe transport handling.



**Technical specifications**

Input AC voltage	: 100-120V, 200-240V, 380-420V, 440-480V or 660-690V, 30-70Hz
Output AC current	: 0-3A, 7,5VA or 0-15A, 80VA
Power factor	: App. : 0.75
Fuses	: 5 of 5x20mm, 0.63A, 250VAC
Weight	: App. 29kg
Dimension (mm)	: H: 264 - W: 455 - D: 560

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