

KONSTANTER SPL Series

Programmable Electronic Load

3-349-703-15
2/11.14

Attention!

This supplement and the operating instructions include all safety precautions necessary for operator protection, for the protection of the electronic load and the connected devices.

Please make sure to read the detailed operating instructions in pdf format (spl-series-ba_gb.pdf) on the attached CD-ROM or at www.gossenmetrawatt.com.

This supplement to operating instructions is no substitute for the detailed instructions!

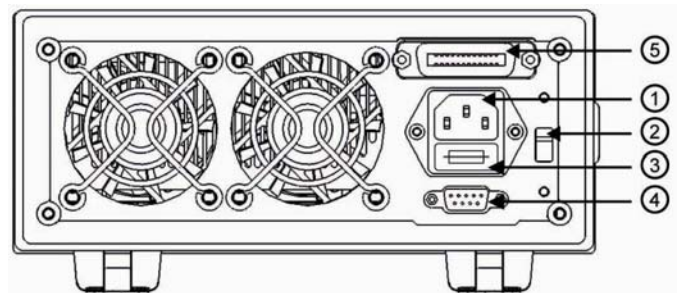
The following general safety precautions must always be adhered to during operation, maintenance and repair of the device. Non-compliance with these safety precautions, or with other explicit warnings included in this supplement and in these operating instructions, is deemed a violation of design-specific safety standards and use for intended purpose. The manufacturer assumes no liability in the event of noncompliance with these safety precautions.

Safety Precautions

- 1 The device may only be operated in accordance with the procedures included in this supplement and in the operating instructions.
- 2 High-voltage conducting components are located inside the device, which must not be contacted directly.
- 3 Read the operating instructions carefully before placing the instrument into service, in order to assure your own safety.
- 4 The device must be grounded.
The device is equipped with a protective earth terminal. The device chassis and the housing must be grounded in order to eliminate the danger of electrical shock. The device may only be connected to mains power by means of a 3 conductor cable, and the protective conductor must be securely connected with the protective conductor terminal of the mains outlet.
- 5 Keep away from voltage conducting electrical circuits!
Operating personnel may not remove any of the device's covers. Only trained personnel are permitted to replace components and change internal settings. Components may not be touched as long as the power cable is connected.
Dangerous voltage may be present even after the power cable has been disconnected from the mains.
The device must be disconnected from the mains, electrical circuits must be discharged and external voltage sources must be disconnected before touching any components, in order to prevent personal injury.
Due to the fact that additional danger may otherwise occur, only original replacement parts may be used and the device may not be modified in an unauthorized fashion. In order to assure uninterrupted functionality of the device's safety fea-

tures, it may only be maintained and/or repaired by qualified service providers.

Rear panel (mains terminal and fuse holder)



- 1 Mains terminal (AC input socket)
- 2 Line voltage selection switch (voltage selector)
- 3 Fuse holder
- 4 RS232 Interface
- 5 GPIB Interface

Connecting the Power Cable

- 1 Examine the voltage selector switch on the back of the device in order to assure that the selected voltage coincides with available mains power. If this is not the case, observe the note printed on the device's mains inlet plug, and make sure that the correct fuse is utilized.
- 2 The on/off switch in the device's front panel must be switched off before the power supply is connected to the mains.
- 3 Connect the 3 conductor cable with plug to the mains outlet. The device must be connected to the protective earth conductor.
- 4 Press the switch on the front panel in order to turn the device on. The device is now ready for operation.

Fuse

The fuse is located in proximity to the mains power inlet plug on the back of the device.

Observe the following points if the setting of the input voltage at the switch provided for that purpose is changed and/or the fuse is replaced:

- 1 The on/off switch must be turned off and the power supply must be disconnected from all other devices before changing the setting of the input voltage at the switch provided for that purpose and/or replacing the fuse.
- 2 Press the fuse holder with an insulated screwdriver and the fuse pops out.
- 3 Pull the fuse out of the fuse holder and replace it with a new one which complies with the specifications on the label next to the mains plug.

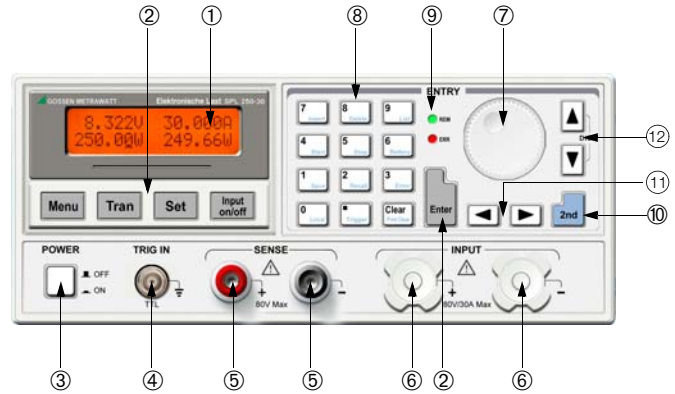


Attention!

Use approved fuse types only in order to prevent damage to the device.

- 4 If input voltage needs to be changed, replace the fuse as described above and then set the voltage selector switch to the desired position (230 V AC or 115 V AC). The selected input voltage appears at the selector switch.

Front Panel (Device connection)



- 1 LCD-Display
- 2 Function keys
- 3 Power switch
- 4 External trigger input terminal
- 5 Sensor terminal
- 6 **Input binding posts**
- 7 Knob
- 8 Entry keys/secondary function keys
- 9 Annunciators
- 10 Switch key for secondary function
- 11 Left & Right key
- 12 Up & Down key/Display-switching key

Connecting devices to the electronic load

- 1 For reasons of safety, make sure that there are no short-circuits between the positive and negative terminals. The device is equipped with short-circuit protection, but a short-circuit may result in injury to the user (e.g. risk of fire).
- 2 The output cable must be insulated all the way up to the connected power consumer.



Attention!

It is imperative that the hazard warning should be observed!

- 3 **The electronic load is equipped with high-current screw terminals of protection type IP00 for the connection with power sources.**
- 4 **The electronic load may be connected with DC power sources up to a voltage of:**
SPL 250-30 as well as SPL 400-40: max. 84 V DC
SPL 200-20 as well as SPL 350-30: max. 210 V DC

If the load is connected to a voltage greater than the standardized exposed extra-low voltage, the user must take care to provide a sufficiently safe cover as a protection against accidental contact.