

4-20 mA sensor simulator



Warnings

SIM-420, equipment for 4-20mA signal simulation, has been tested and verified in our test labs. To maintain the good condition of the equipment and the safety conditions appropriate for the user, the safety instructions contained in this manual should be observed.



Before each test, you must ensure that the measuring cables and the meter show a correct appearance, e.g. no damaged cables. Before carrying out a measurement, ensure that the measuring lines and the instrument are in good condition.



The meter should only be used in the measuring circuit categories specified for it.



The instrument should only be used within specified ranges and low voltage installations, up to 30V.



If the operator safety is no longer guaranteed, the instrument must be taken out of operation and secured against its involuntary or improper use.

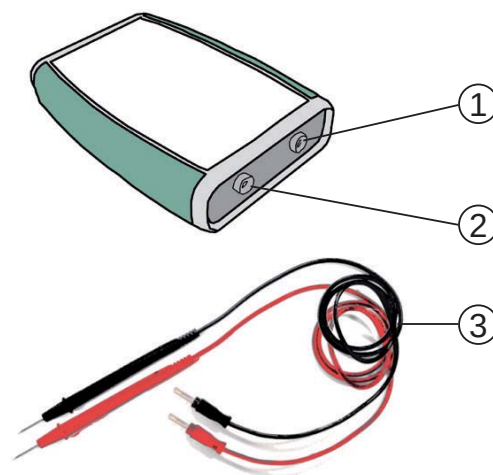
In the following cases, security is no longer guaranteed:

- Obvious damage.
- If the device fails to properly perform the required checks.
- Too long and improper storage.
- Damage due to transportation.

For any work, please take into account the requirements for the prevention of occupational accidents in force.

Components and connections

1. **Negative (-)** measuring terminal.
2. **Positive (+)** measuring terminal.
3. Measuring terminals.



Applications

- ELECTRIC PANELS.
- ELECTRONICS.
- HOME APPLIANCES.
- INDUSTRY.

Instructions for use

SIM-420 simulator consists of a DC generator, working in a range of 4 to 20mA. The lower value begins at 3mA, in order to check the low range alarm for values under 4mA, that some equipments offer. Also, the higher value can reach up to 24mA to verify the over-range alarm.

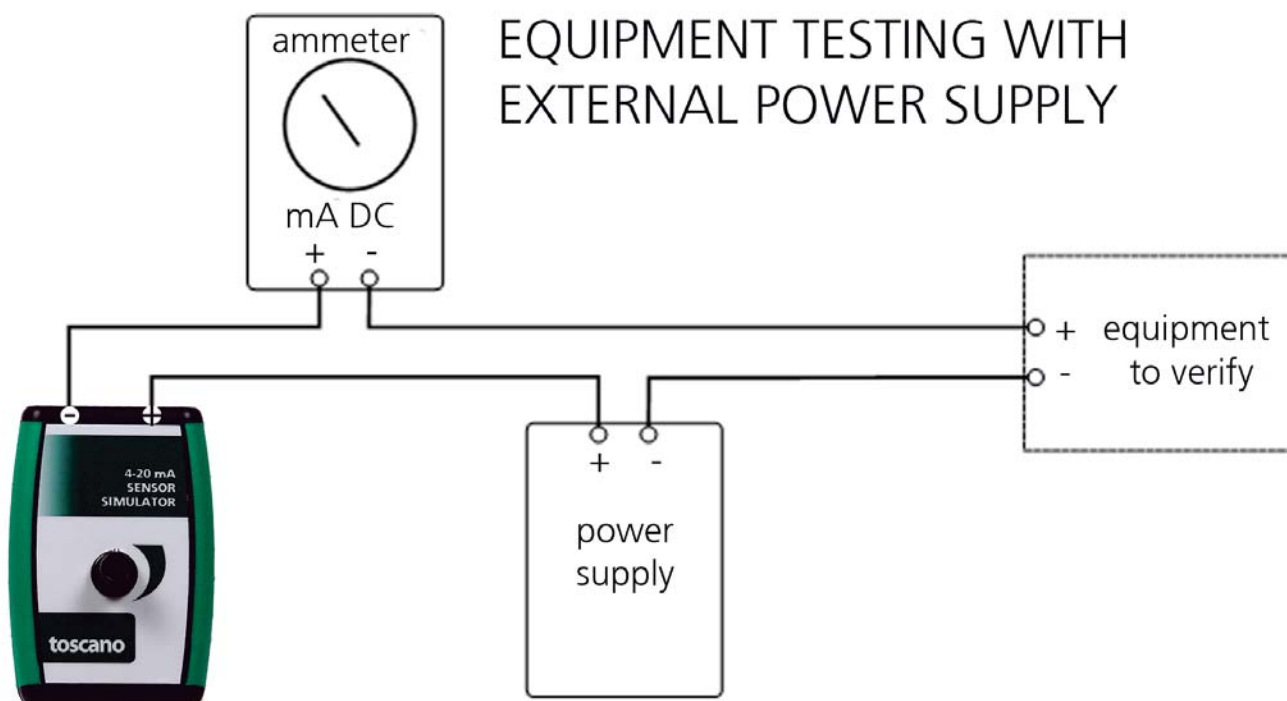
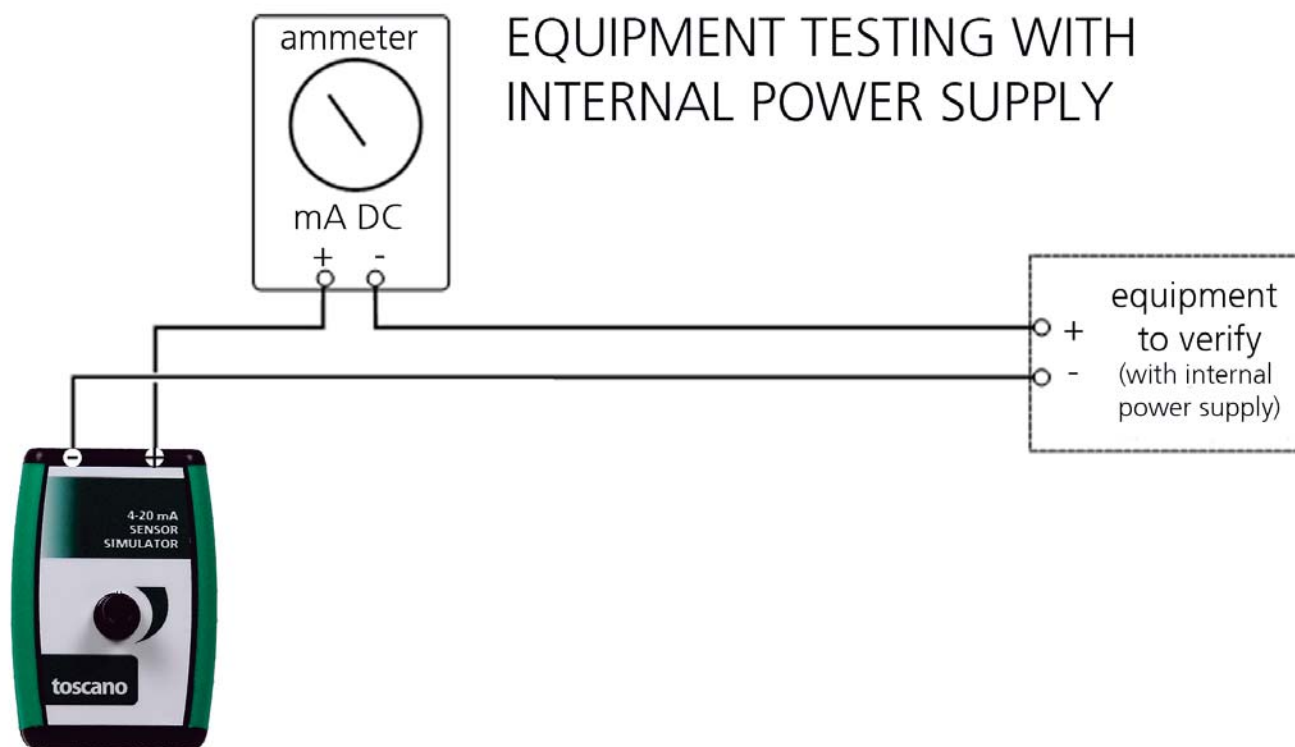
SIM-420 requires a DC milliampere display to have an indication of the mA generated in every moment.

SIM-420 does not have internal power supply, so it needs an external power supply or to use that from the equipment being tested.

Technical features

Output range	3...24mA
Max. operating voltage	30VDC
Min. operating voltage	6VDC
Storage temperature	-30°...+60° C
Working temperature	-10°...+55° C
Relative humidity	95%
Size	80 x 24.5 x 117 mm
Weight	110 gr.
Ref. code	10002256

Connection examples



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