



Operating instruction for electric fence controller horiSMART N100

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in connection with SECURA ANIMAL or SECURA SECURITY safety hints
(www.horizont.com)

Installation and connection: The installation is to be made at a location protected from weather and where there is no risk of fire. The controller must be mounted in the vertical position. The earth lead must be attached to the earth terminal (\perp), the fence lead either to the fence terminal (L or L_1).

The power supply cable must not be handled when the temperature is below 5°C.

If the fence lead is conducted away from the building a lightning protection must be installed.

Operating and control: Plug the mains cable in a 110 V supply socket. After a few seconds a slight tic-tac can be heard. The **operation indication (1)** and the **energy indication (2)** are illuminated. (page 3 / fig.3). If the **operation indication (1)** is not illuminated the energizer is faulty.

The **10 LEDs (4)** indicate the fence voltage in 1000V steps. At least 3 lamps should flash (3000V) to ensure sufficient voltage and fencing. If less than two LED are illuminated an acoustic signal will be generated.

Possible reasons, when the voltage is too low:

- a) with fence: heavy vegetation on the fence, insulator flash-over or fence too long.
- b) without fence: the energizer is faulty, see service.

The energizer has two fence terminals: (page 3 / fig. 2)

L_1 (Z1) = max output L_2 (Z2) = reduced output

By operating with two fence systems (**Z1 + Z2**) the indication lamps show the reduced output only.

The horismart effect: (page 3/ Fig 3)

horismart is a new electric fence philosophy: **powerful but safe for humans and animals**. Under normal conditions - clean fence- the energizer supplies high possible fence voltage but with reduced and safe pulse energy.

The indication for the pulse energy \uparrow is illuminated depending upon the fence condition:

LED (2) green = standard puls

LED (3) yellow = increased pulse energy into the fence ie in case of fence contact - vegetation or other deviation.

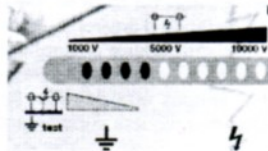
If the standard pulse cannot keep the minimum fence voltage (approx. 5000V) the **green LED (2)** is turned off and the pulse energy is increased - **LED (3)** yellow is on - but the energy step up is turned on only after a safety time of approx. 1 minute. If the breakdown is removed the energiser is operating again with the standard pulse - with **LED (2)** green on.

Abnormal operation: To prevent unallowed pulse energies from the fence a pulse sequence control is available. If the pulse sequence increases a certain value the pulse energy is decreased. In this case the step up switch is blocked - possible reason: power surge. lightning flash, permanent fence sparks or energiser defect.

Testing grounding (5): Produce with a metal stake against the fence wire (no plastic) a short circuit (ca. 50m distance to fencer).

Max. 2 lamps (wet ground) or 3 lamps (dry ground) may shine.

Otherwise drive in more stakes (see picture).



Service: Servicing is only to be made by qualified service personell. Only by the manufacturer commanded replacement parts must be used. If the supply cord of this energizer is damaged this cord must be replaced by a special supply cord which is recommended by the manufacturer.