



JOULIMETER

DIGITAL MULTIMETER AND A DETECTOR LOSSES



USE :

- **ECOPIC** pocket joulimeter is able to control the shock (amount of energy in Joule) actually felt by a bird touching the **BIRD-OUT**® system.
- For energy measurement (Joules «J»), briefly press the button to switch to the Joules display (sch 1) and absolutely connect the supplied ground wire (sch 4).
- The measurement is done by applying the **short electrode** (sch 3 & 4) to the conductor; keep it at least 4 seconds in contact with the line then read the displayed value (sch 2).
- The shock is written in Joules «J» or milijoule «mJ» if it is lower than 1 Joule (sch 2).
Reminder : 1J = 1000 mJ
- «V» position of the button (sch 1) shows you on the screen (sch 2) the voltage level (Volt) when the bird comes into contact with the **BIRD-OUT**® system.
At least **2000 V (2kV) + 200 mJ** are needed for the voltage to be sufficient to transmit the shock.


NOTE :

The quantities measured vary according to the installations and depend on the quality of the components of your **BIRD-OUT**® system (conductor conductivity, quality of your return (-), quality of your isolators.

ECOPIC recommends that you use the products sold with **BIRD-OUT**® otherwise, no guarantee will be issued.

Energy measured directly at the terminals of an **Central 02** does not necessarily correspond to the maximum energy delivered in a real installation.
Detects the direction of the power loss.

RECOMMANDATIONS :

- The tension displayed on the screen is the internal tension to the bird once the contact is positively established. There is no tension "breakdown" (before contact) traditionally measured with the multi-lamp controllers.
- When the battery display icon is empty  ...battery must be changed.
- One 9V battery (supplied) - PP3 / 6LR61 / RX22 