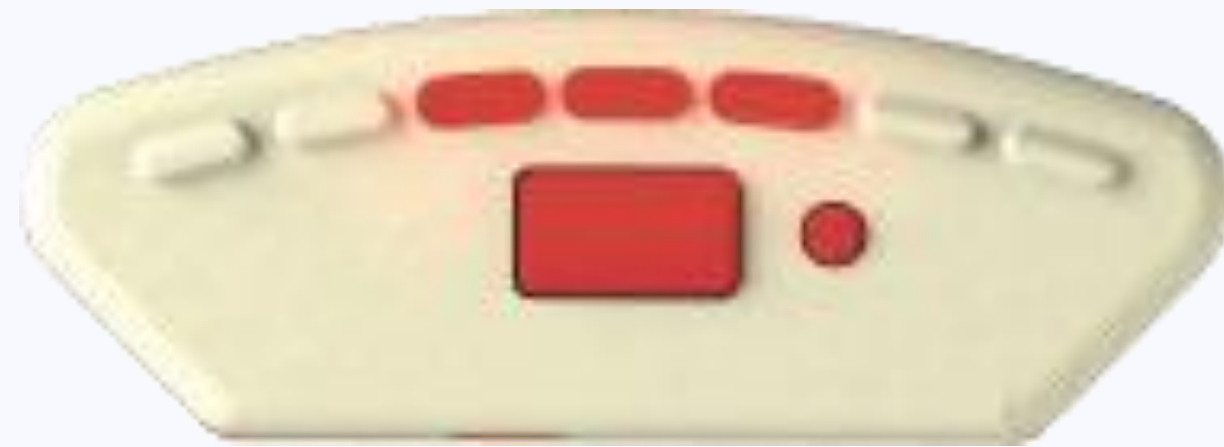




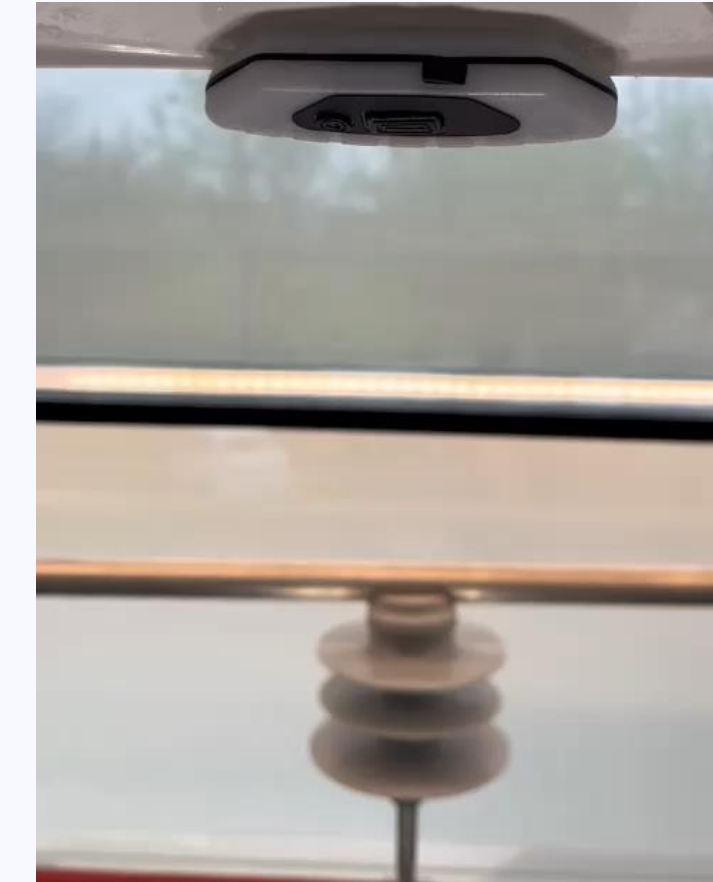
PENTA
ELECTRICAL SAFETY PRODUCTS

KEEPER – Keeping you safe



VOLTAGE INDICATION

The Keeper will indicate voltage at distance by RED indicators. The origin of the voltage, will be indicated by animations of the indicators, pointing the origin of the source: left, front, righth.



CURRENT INDICATION

The Keeper will indicate current at distance by Yellow indicators. The amount of current detected, will be indicated by animations of the indicators, like a vumeter.



— User's expertise

Rookie No knowledge of electrical hazards and arc flash risks.

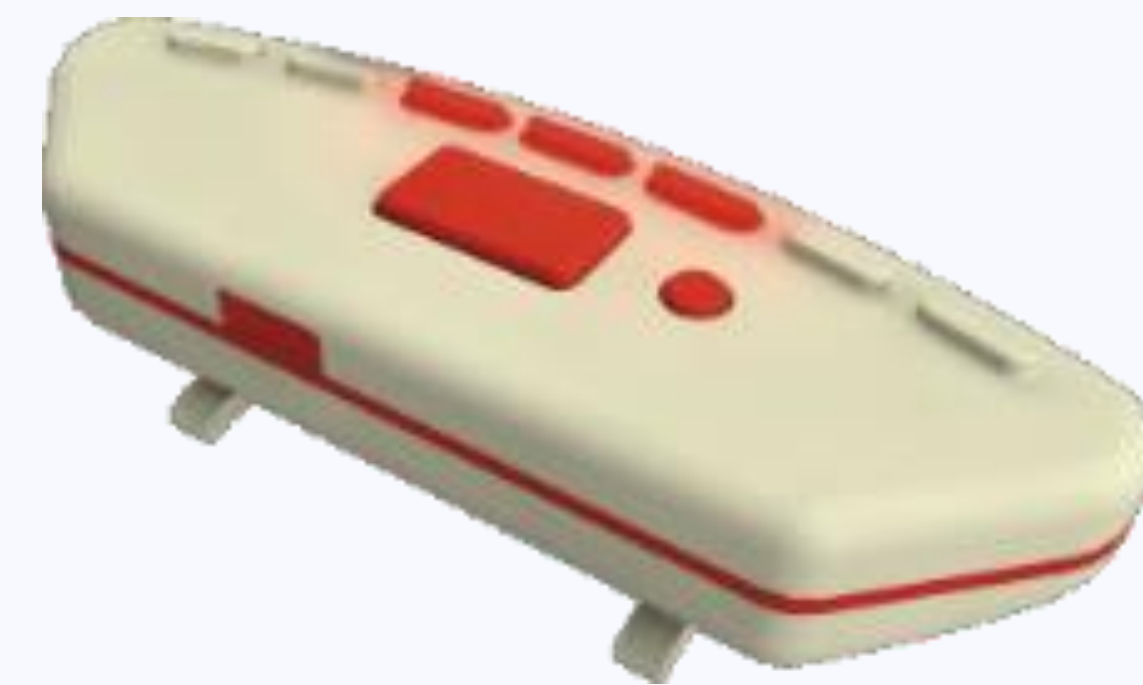
Standard Basic knowledge of electrical hazards and arc flash risks.

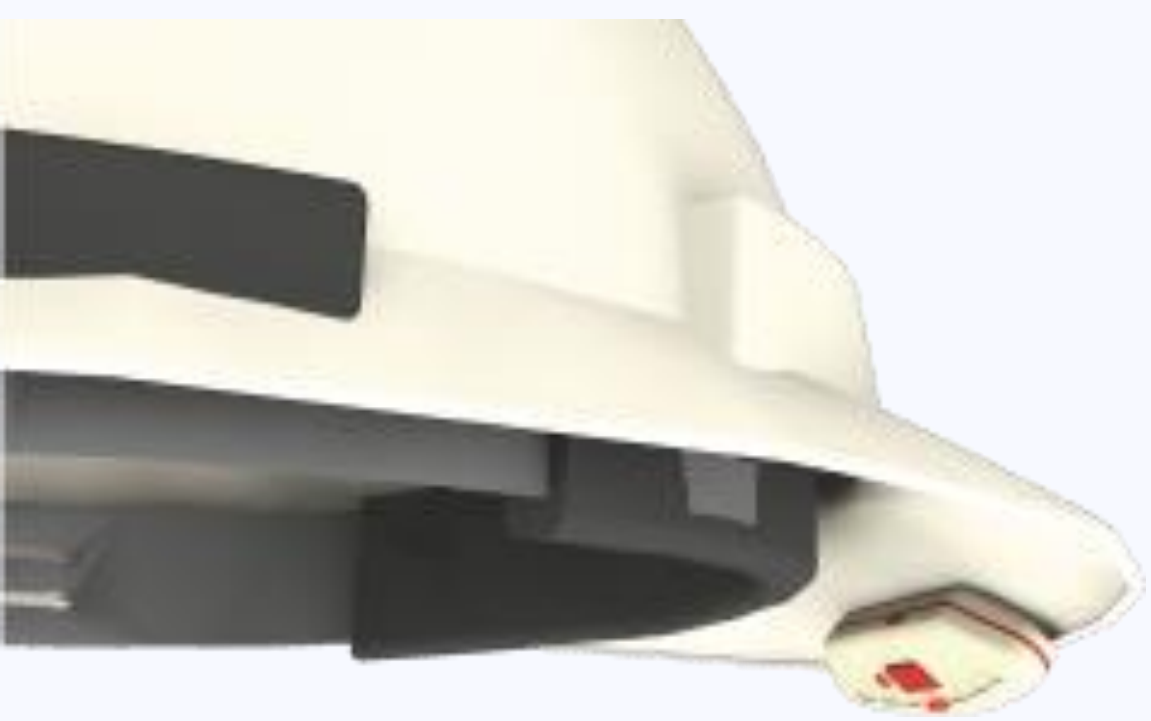
Professional Advanced knowledge of electrical hazards and arc flash risks, knows the safety distances based on the voltaje involved.

Professional PLUS Mute function

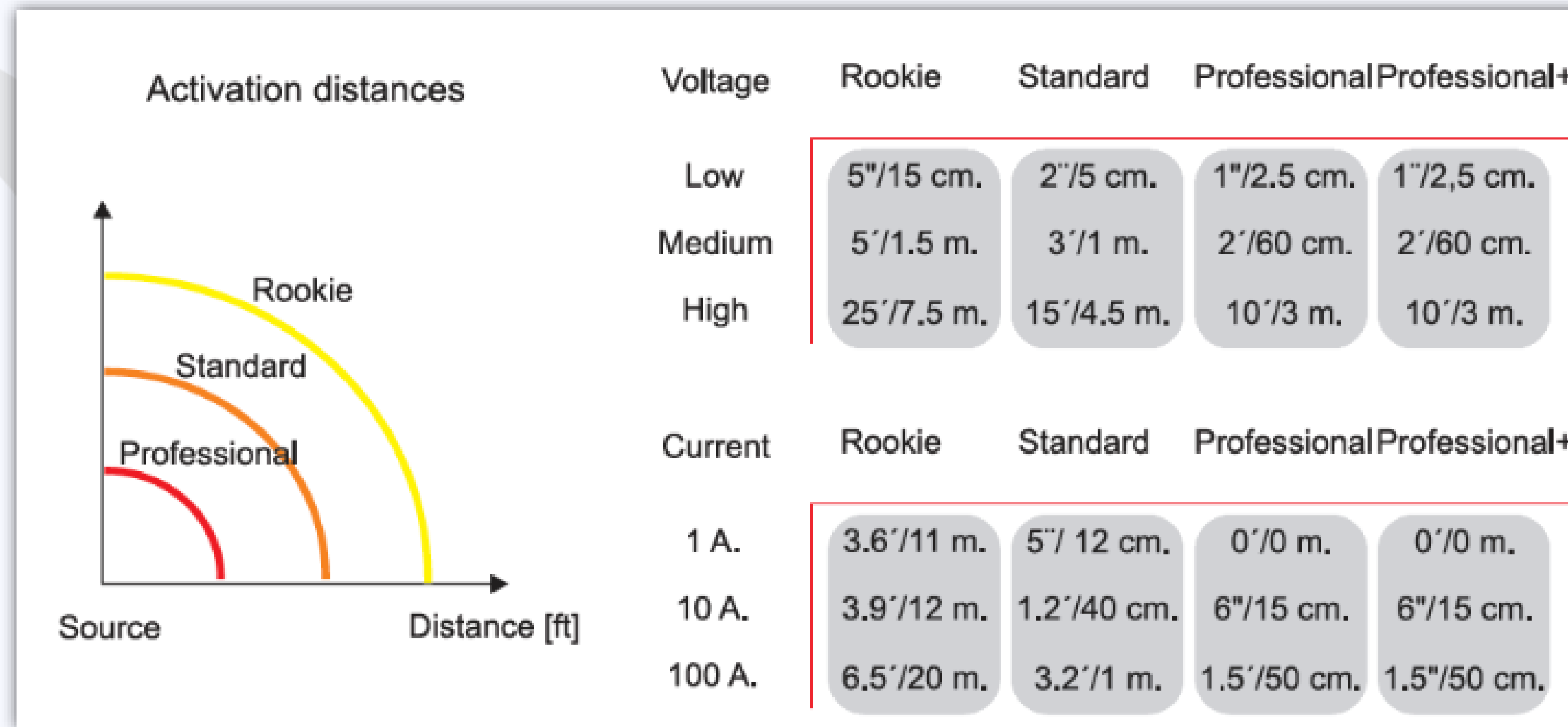
The keeper can be configured in 4 modes of use, according to the user's expertise. Each mode has an associated detection distance.

Distance of activation $\approx f(\text{User's expertise})$

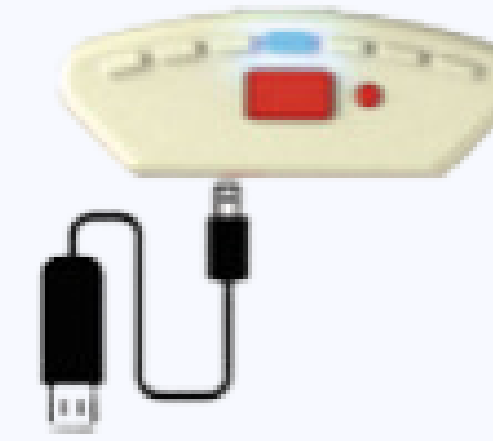
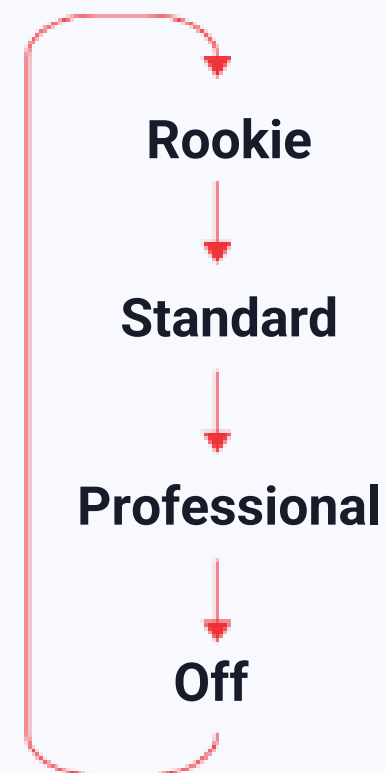




— User's expertise = distance of activation

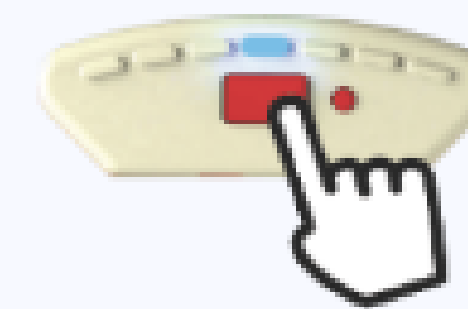


— Sensibility selection

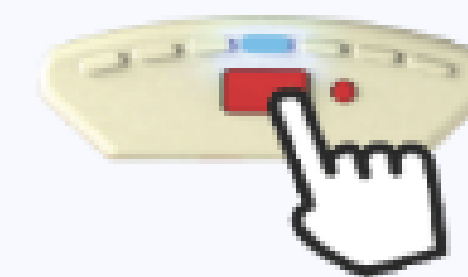


Connect the Keeper to a power source through the USB-C cable supplied.

A **blue** blinking led will indicate that the Keeper is charging and ready to select the user modes.



Pressing the MAIN button, you can cycle trough the different **VOLTAGE** user modes.



Pressing the MAIN button, you can cycle trough the different **CURRENT** user modes.

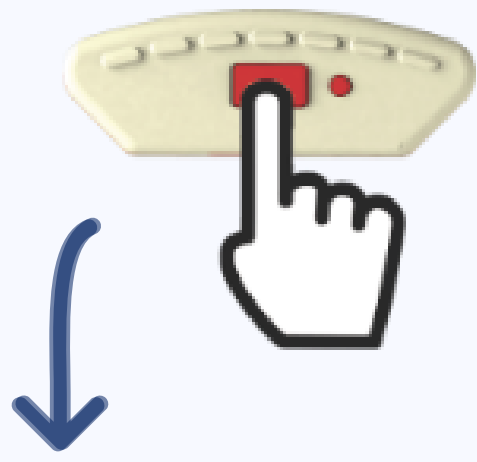
Professional PLUS



Professional PLUS Mute function

The professional mode allows adapting to the present voltage and current conditions
Silencing the keeper, so as not to interfere during work in known dangerous situations.

How to adapt



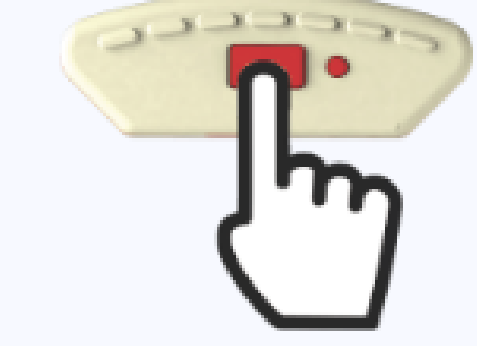
Once adapted, the keeper will confirm with a sound and a purple indication that the sensitivity has been adapted to the environment.

Adapted



If the keeper moves towards the source, the alarm will start sounding again.

Exit



Press MAIN button again to reset the threshold to original values.

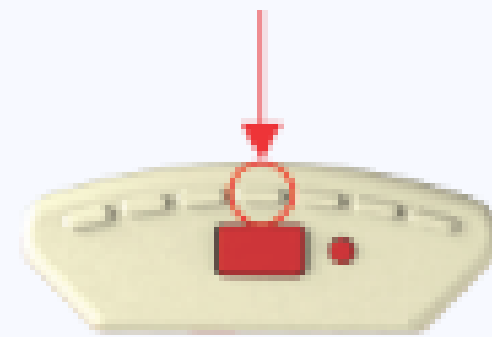


— Auto-Test



The Auto test routine, not only tests the sound and lights.

When starting an auto test the keeper internally generates an electromagnetic field that tests the voltage and current sensors, **making it a 100% real test.**



If the test is **NOT SATISFACTORY**, the Keeper will enter **ERROR** mode disabling its use.

The center Indicator will show the type of error:

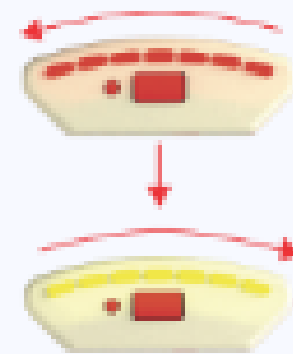
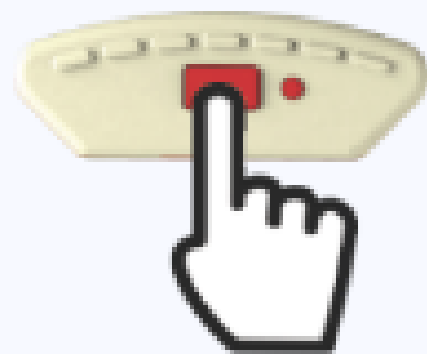
Yellow Blinking - Battery Low

Red blinking - Very Low battery

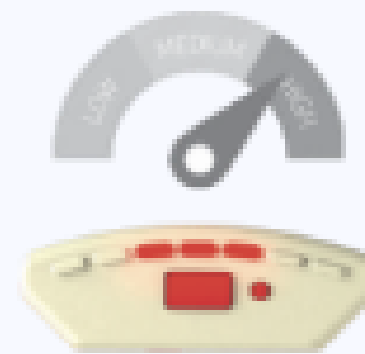
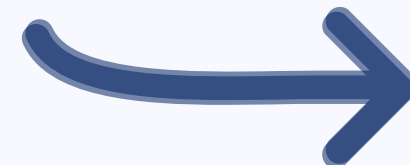
1 Red Blink - Left Voltage sensor error.

2 Red Blinks - Right Voltage sensor error

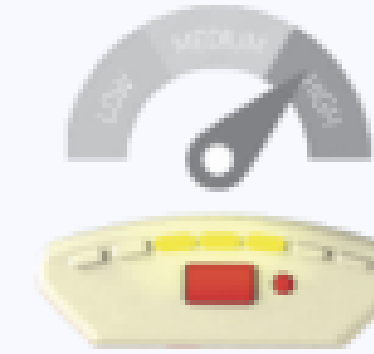
3 Red Blinks - Current sensor error



Test all the voltage indicators plus sound,
Test all the current indicators plus sound,



Show the user mode selected far Voltage



Show the user elected far current



Rookie Standard Professional Professional+



Rookie Standard Professional Professional+

— Operation Modes

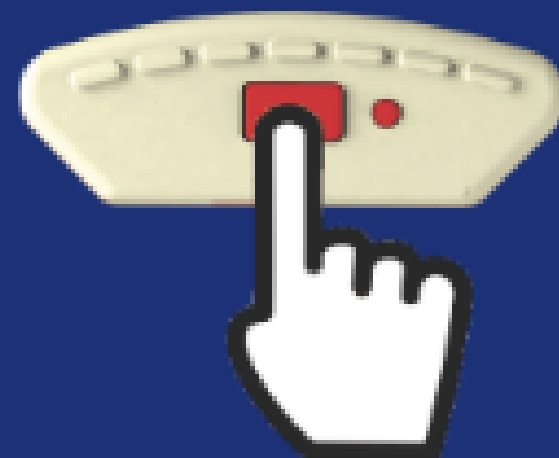
POWER ON

To power the Keeper on, press and release the Main button.

The Keeper will execute an AUTO-TEST routine.

If the test is satisfactory, the sensibility calibration for voltage and current will be displayed.

If the test is not satisfactory, the Keeper will enter ERROR mode.



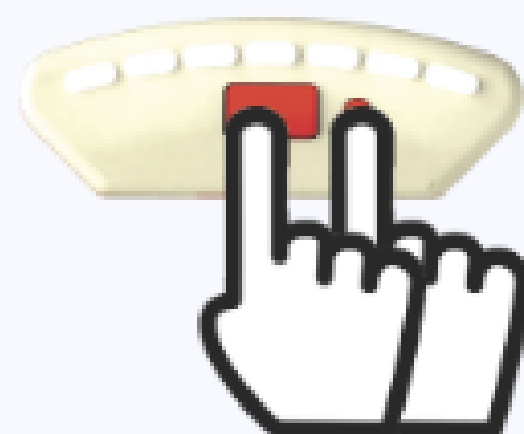
PLANE MODE

Pressing both MAIN and AUX buttons will lead to POWER-OFF.

A quick sequence of white light will indicate the Keeper successfully entered POWER-OFF mode.

Only use this mode for storage or traveling.

This mode does not keep you safe.



SLEEP MODE

After 60" with no voltage or current indicators on, the Keeper enters SLEEP mode.

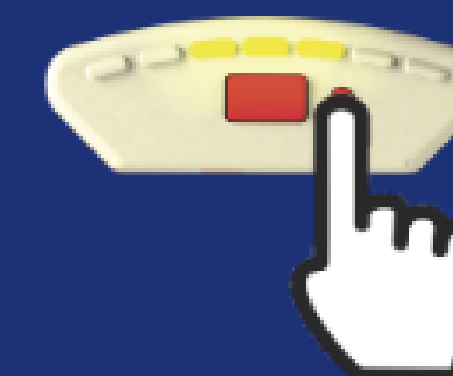
Even though the Keeper is in low consumption mode, the Keeper stays ALERT and ON.

One short beep will indicate the Keeper entering SLEEP mode.

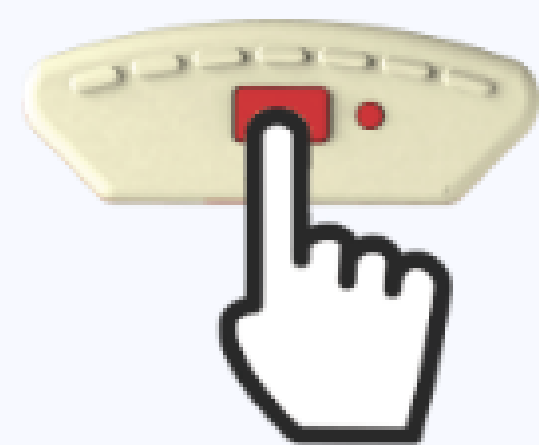


CURRENT DETECTION

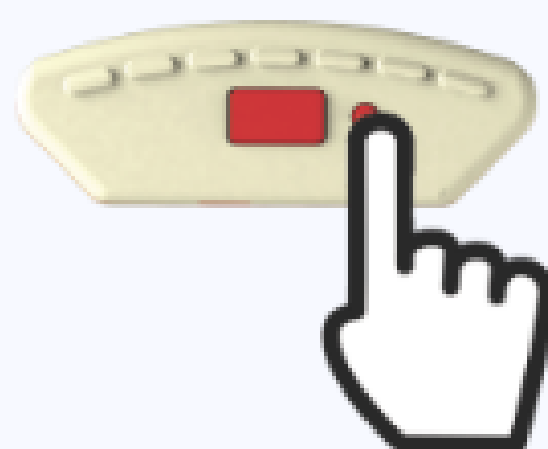
Keep pressing the AUX button to enter CURRENT DETECTION mode



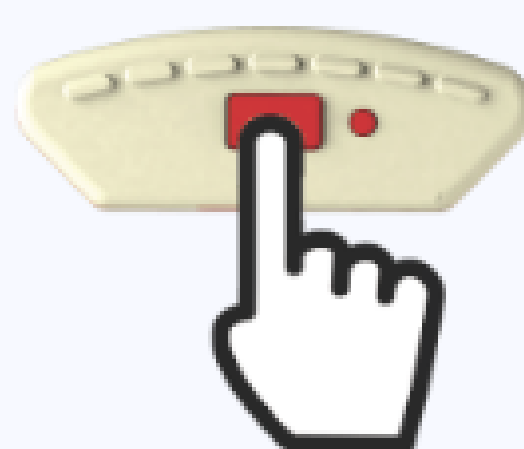
Rookie



Cycle



Exit

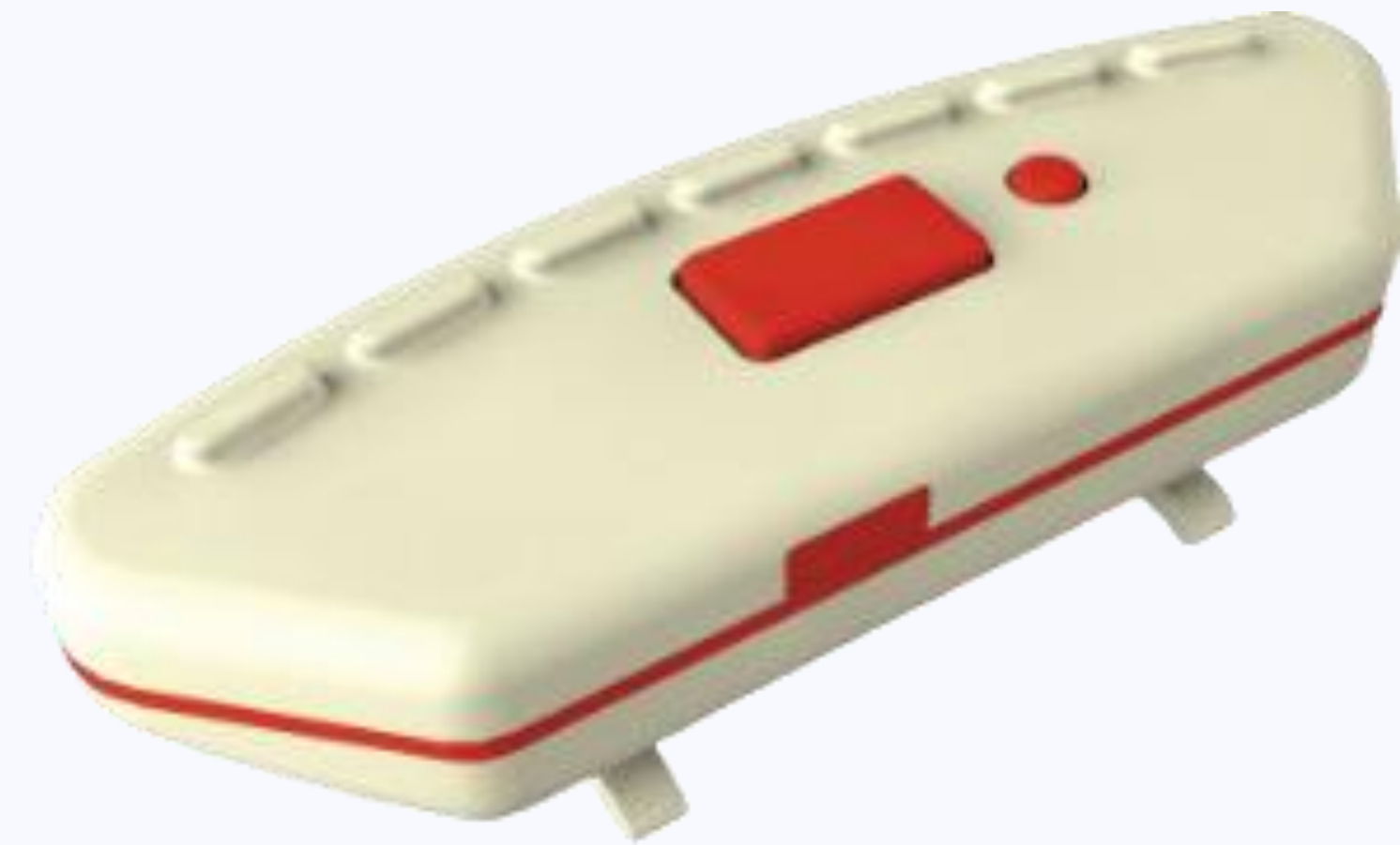


— Auxiliaire Modes

To enter auxiliary modes,
keep pressing MAIN button
for two TEST cycles.



— Product specifications



- Intuitive use.
 - Always alert, always looking after you.
 - Robust and lightweight design - 30 g./ 1 oz.
 - Directional and proximity alerts.
 - Adjustable sensitivity, according to the user's expertise.
 - High capacity rechargeable Li-ion battery, 3.7 V./350 mAh.
- Autonomy: Up to 3 months in stand by.
- Self-test function, TRUE TEST.

STANDARDS



**EC 61243: LIVE WORKING – VOLTAGE DETECTORS – Part 6:
Guidelines on non-contact voltage detectors
(NCVD) for use at nominal voltages above 1 kV a.c.**



**F3283/F3283M Standard Specification for the
Manufacturing of High-Voltage Proximity Alarm to be used
for the detection of Overhead High Voltage Alternating
Current (AC)**