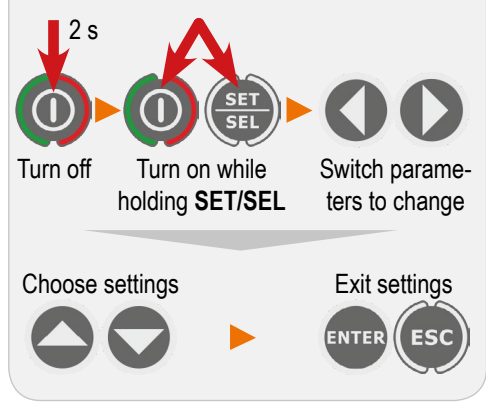




rtSt	Time to the next performance of tests
AtSt	Autotests
bEEP	Audio messages
RoFF	Auto-off time
rF	Wireless communication
Prnt	Report printing
APrn	Automatic report printing
Prnt Conf	Printer configuration
Un	Voltage of the power supply network
Fr	Frequency of the power supply network
rLn	L-N circuit resistance measurement
IEC	Reaction for swapped L and N lines
DATE	Date DD/MM/RRRR
12:00	Time HH/MM
FACT SET	Restoring factory settings
UPdt	Firmware update

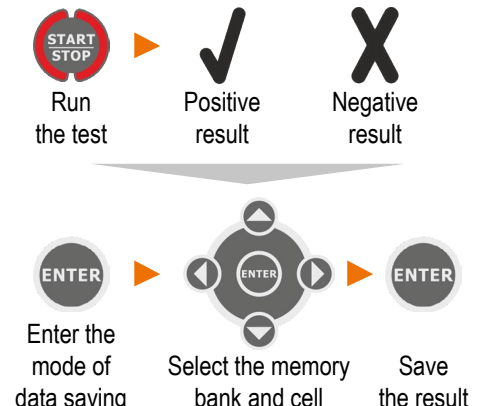
First steps

- Turn the tester on
- Select firmware language
- Configure the tester



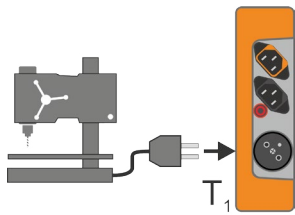
- Select the test procedure
- Connect the tested object
- Obtain the test result and save it

- MANUAL** Manual tests
 - switch subsequent test modes
- CL I** Autotests
 - class I appliances
- CL II** Autotests
 - class II and III appliances
- IEC** Autotests
 - IEC power cords
- PRCD** Autotests
 - portable RCD breakers



Visual test

If the r_{LN} measurement is active, connect the examined object to the tester in order to determine the resistance of the L-N circuit



START STOP Run the procedure.

PASS Perform a visual inspection of the object and enter the evaluation manually.
FAIL

R_{PE} PE conductor resistance

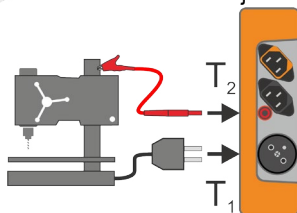
R_{PE} 200 mA

MANUAL +1 **R_{PE} 10 A** **PAT-10**

SET SEL Enter settings.

Set:
 • upper limit of R_{PE}
 • duration of the measurement.

ENTER Confirm settings and connect the object.



START STOP Run the measurement and wait for the result.

R_{ISO} Insulation resistance

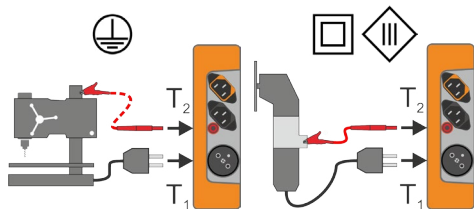
R_{ISO} 250 V **PAT-10** **PAT-2E**

MANUAL +1 **R_{ISO} 500 V**

SET SEL Enter settings.

Set:
 • lower limit of R_{ISO}
 • duration of the measurement.

ENTER Confirm settings and connect the object. Turn it on.



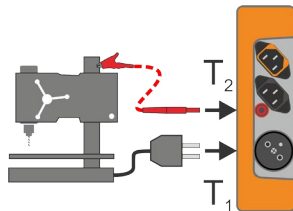
START STOP Run the measurement and wait for the result.

I_{SUB} Substitute leakage current

SET SEL Enter settings.

Set:
 • upper limit of I_{SUB}
 • duration of the measurement.

ENTER Confirm settings and connect the object. Turn it on.



START STOP Run the measurement and wait for the result.

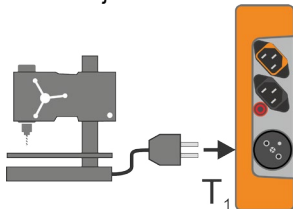
I_Δ Differential leakage current

PAT-10 **PAT-2E**

SET SEL Enter settings.

Set:
 • upper limit of $I_{Δ}$
 • duration of the measurement.

ENTER Confirm settings and connect the object. Turn it on.



START STOP Run the measurement and wait for the result.

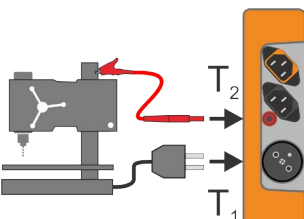
I_T Touch leakage current

PAT-10 **PAT-2E**

SET SEL Enter settings.

Set:
 • upper limit of I_T
 • duration of the measurement.

ENTER Confirm settings and connect the object. Turn it on.



START STOP Run the measurement and wait for the result.

Select the type of autotest.



SET SEL For the chosen procedure adjust test settings:

- presence of visual test
- measuring current for R_{PE}
- upper limit of R_{PE}
- duration of the R_{PE} measurement
- measuring current for R_{ISO}
- lower limit of R_{ISO}
- duration of the R_{ISO} measurement
- upper limit of I_{SUB}
- duration of the I_{SUB} measurement
- presence of polarity check
- RCD tests **PAT-10** **PAT-2E**:
 - $I_{Δn} \times 1$ - initial phase of 0°
 - $I_{Δn} \times 1$ - initial phase of 180°
 - $I_{Δn} \times 5$ - initial phase of 0°
 - $I_{Δn} \times 5$ - initial phase of 180°
 - breaker type (standard / S)



- Tests are carried out automatically.
- If the function R_{LL} is inactive, after each measurement press **START/STOP** to go to the next test of the procedure.

ENTER Confirm changes.

START STOP Connect the tested object. Run the procedure.

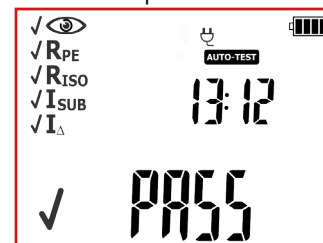
PASS In the visual test perform a visual inspection of the object and enter the evaluation manually.
FAIL

√R_{PE}
√R_{ISO}
√I_{SUB} If the icon ⚡ appears:

- connect power supply to the tester or
- **PAT-10** **PAT-2E** hold the autotest button for 3 s (powering the measurement from battery).

turn In PRCD mode, the need to re-enable the tested RCD is signalled.

X The first negative result in the series of measurements terminates the procedure.



After completion of the procedure, a collective test result appears.



Find more information in the user manual and on our website www.sonel.pl/en