

# Prüfball ZAP 350L / 1050L Digital

Electricity meter tester with 350 W / 1050 W load



The Prüfball ZAP digital is an extremely safe testing device for fast start-up tests at initial operation of electricity meters, combined with a high-quality voltage tester.

- Direct indication of voltages up to 500 V
- Connectible load of 350 W / 1050 W for fast start-up tests
- Phase, phase sequence and continuity tester
- Thermal and overvoltage protection
- Without battery, maintenance-free lifelong



### Universal testing device for meter installation and network technology

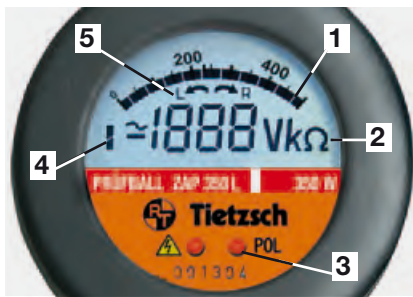
Five important functions combined in one device

- Electricity meter tester for all directly measuring electricity meters
- Voltage tester 50 ... 500 V
- Phase tester
- Phase sequence tester
- Continuity and self-tester

### Exact, precise display

Reliable test by two display systems and connectible load:

- direct indication by LEDs and LCD at 50 V
- connection of start-up load
- clear indication of load
- high accuracy



1. Bargraph
2. large numerals and symbols for voltage AC/DC and resistance
3. Light diodes
4. Indication of connected load
5. arrow for phase sequence
6. Indication if one test prod is applied to phase



### Technology and safety

High-quality elements guarantee operation and safety under extreme conditions

- solid rubber case, dust- and waterproof IP 65
- overvoltage protection – CAT IV
- maintenance-free - no battery required
- secure two-hand tripping device for low resistive checks through special push-button with wide contact gap in both handles
- thermo-switch to avoid overheating at multiple use
- voltage monitoring as protection against mistakes in voltage ranges (phase/phase) during load tests



### ZAP – line

The patented special cable allows space-saving and water-protected design

- fast start-up through high capacity
- no overheating of device or handles
- enclosed casing without ventilation



### Accessories

(Accessories are not included in scope of delivery)

- bag of leather or artificial leather Keeping the ZAP in the bag avoid the bending of the connection lead
- pin prod for tight contacts (see accessories for Prüfball SPB)



### Technical data

Electricity meter and voltage tester ZAP 350L (1050L) according to EN/IEC 61243-3 with special cable in accordance with BG test report

Nominal voltage

50 ... 500 V AC/DC

Display range

50 ... 500 V AC/DC

Frequency

0...2000 Hz

Voltage indication

high-impedance, direct reading:

LED  $\geq 50$  V - and  $\geq 120$  V + -

LCD  $\geq 50$  V backlight

(accuracy 2,5% + 5 digit)

⊕ low resistive switched: additional display symbol for connected load

Continuity

0 ... 1000 k $\Omega$  (resolution 50 k $\Omega$  +/- 150 k $\Omega$ )

Phase / Phase sequence / Polarity

capacitive, without accessible electrode

arrows for phase sequence

POL for phase unipolar

tests possible with gloves

voltage type - / ~

Input resistance

direct (high-impedance) approx. 150 - 190 k $\Omega$

⊕ switched (start-up): 150  $\Omega$  (50  $\Omega$ )

Current peak value

direct: < 3,5 mA

⊕ switched: 1,5 A / 230 V (4,6 A / 230 V)

On-time

30 seconds

Connectible capacity

approx. 350 W at 230 V (approx. 1050 W at 230 V)

Overvoltage protection

automatic switch-off of load at > 260 V

Overload protection

thermo-switch, thermo-point at > 70°C

Overvoltage category

CAT IV in accordance with IEC 60664-1 (VDE 0110)

Surge voltage strength

12 kV case insulation to user

8 kV switching mechanism between test prods

Insulation test voltage

6 kV unit inspection of case and line

Operating temperature

-15°C ... + 45°C

Power supply

maintenance-free - without battery,

test functions voltage, phase sequence is

supplied from the mains, Continuity by Li-accu with automatic charging function

Casing

unbreakable silicone rubber,

display cover made of indestructible polycarbonate

Protection category

IP 65, device can be used in moist environments

Line

patented thermo-line  $\varnothing$  10 mm / 1,8 m,

( $\varnothing$  15 mm / 1,8 m)

twin insulated, PA-thermo protection meshwork

Dimensions / Weight

274 x 75 x 47 mm (display part) / 510 g (720 g)

Art.-no.	Type / Label
81315	Electricity meter tester ZAP 350L
81316	Electricity meter tester ZAP 1050L
81019	Thread test electrode
81023	flexible pin prod
Accessories on page 30	