

Prüfball ZAP 350 Analog

Electricity meter tester with 350 W load



The Prüfball ZAP 350 is an extremely safe testing device for fast start-up tests at initial operation of electricity meters, combined with a high-quality voltage tester.

- Indication of voltages up to 500 V
- Connectible load of 350 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 24 - 500 V
- Phase tester
- Phase sequence tester
- Continuity and self-tester

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
- Integrated thermo-switch to avoid overheating at multiple use
- voltage monitoring as protection against mistakes in voltage ranges (phase/phase) during load tests

Exact, precise display

Reliable test by three display systems and connectible load:

- direct indication by LCD indicator and LEDs at > 24 / 50 V
- connection of measuring system and start-up load in two stages
- unambiguous direct indication of load with 350 W by load-LED 1,5 A
- high accuracy through moving-iron instrument class 2,5



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 350 according to EN/IEC 61243-3 with special cable in accordance with BG test report

Nominal voltage

24 ... 500 V AC/DC

Display range scale

100 ... 500 V AC/DC

Frequency

0...100 Hz

Voltage indication

high-impedance, direct reading:
1 LED and LCD ≥ 24 V 2 LEDs ≥ 50 V

⊕ low resistive connected:
moving-iron system 100 ... 500 V
cl. 2,5: basic accuracy 2,5 % + reading errors
large 90° scale, effective value display

Continuity

0 ... 2 M Ω Ω -symbol in LCD
automatic switch-over to voltage

Phase / Phase sequence

LED and LCD triangle ≥ 165 V
for phase unipolar and
phase sequence bipolar with sensor

Input resistance

direct (high-impedance)	approx. 0,6 M Ω
⊕ switched:	54 k Ω
second stage (start-up)	150 Ω

Current peak value

< 30 mA / 500 V
with connected load approx. 1,5 A / 230 V

On-time

30 seconds

Connectible capacity

approx. 350 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 and acoustic
signal are supplied from the mains,
continuity by Li-storage, refreshable

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,
twin insulated, PA-thermo protection meshwork

Dimensions / Weight

274 x 75 x 47 mm (display part) / approx. 515 g

Art.-no.	Type / Label
81314	Electricity meter tester ZAP 350
81019	Thread test electrode
Accessories on page 30	