

P-1, P-2 & P-3

VOLTAGE AND CONTINUITY TESTERS



Standard accessories of the meters P-1, P-2 & P-3:

- batteries LR03 (AAA) (2 pcs.)
- operating manual

Optional accessories of the meters P-1, P-2 & P-3:

- transmitter LKN-710P (P-3 only)
- carrying case S2

WMPLLKN710P
WAFUTS2

Sonel S.A.
ul. Wokulskiego 11
58-100 Świdnica, PL
tel. +48 74 85 83 860
fax +48 74 85 83 809

export@sonel.pl
www.sonel.pl



P-1

- **AC/DC voltage indication:**
 - on LED bargraf for values: 12, 24, 50, 120, 230, 400, 690V (indication of voltage with and without batteries),
 - determination of voltage: alternating or polarisation of constant voltage.
- **Circuit continuity test:**
 - signaling for resistance <400kΩ.
- **Phase rotation test:**
 - indication of phase sequence for voltage >100V.
- **Single pole test for phase detection:**
 - indication by means of touch electrode,
 - optical and acoustic signaling for voltage >50V.
- **RCD test:**
 - RCD test $I_{\Delta n} \leq 100\text{mA}$.
- **Terminals $\varnothing 2\text{mm}/4\text{mm}$.**
- **Illumination of measurement point.**
- **Meter meets the requirements of the standards EN 61010, IEC/EN 61243-3 EMC.**



Transmitter LKN-710P is additional equipment for P-3 used for phase identification.

P-2 & P-3

- **AC/DC voltage measurement and indication:**
 - on LED bargraf for values: 12, 24, 50, 120, 230, 400, 690V (indication of voltage with and without batteries),
 - display of measurement result in the LCD screen,
 - determination of voltage: alternating or polarisation of constant voltage.
- **Resistance measurement and circuit continuity test:**
 - display of measurement result in the LCD screen,
 - signaling for resistance <400kΩ.
- **Indicator of phase rotation:**
 - indication of phase sequence for voltage >100V.
- **Single pole test for phase detection:**
 - indication by means of touch electrode,
 - optical and acoustic signaling for voltage >50V.
- **RCD test:**
 - RCD test $I_{\Delta n} \leq 100\text{mA}$.
- **Identification and adjustment of phase (P-3 only):**
 - phase determination at given socket referring to the other one,
 - possibility of phase determination at given socket with using additional transmitter - without time limit related to the synchronization of runs.
- **Terminals $\varnothing 2\text{mm}/4\text{mm}$.**
- **Illumination of measurement point.**
- **DATA HOLD function, for holding measured values (P-2 only).**
- **Meter meets the requirements of the standards EN 61010, IEC/EN 61243-3 EMC.**

AC/DC voltage measurement

Range	Resolution	Accuracy (AC)	Accuracy (DC)
6,0...49,9V	0,1V	$\pm(3\% \text{ w.w. } +4 \text{ digits})$	$\pm(3\% \text{ w.m. } + 3 \text{ digits})$
50...750V	1V	$\pm(2\% \text{ w.w. } +3 \text{ digits})$	

Resistance measurement

Range	Resolution	Accuracy
0...1999Ω	1Ω	$\pm(3\% \text{ w.m. } + 8 \text{ digits})$

„m.v.” - measured value.

Electric security:

- type of insulation double, according to EN 61010-1
- measurement category CAT III 1000V (IV 600V) acc. to EN 61010-1
- protection class acc. to EN 60529 IP65

Other technical data:

- meter's power supply alkaline batteries LR03 (AAA) (2 pcs.)
- frequency range for a single-pole phase indicator 50...400Hz
- accuracy of voltage indications in accordance with EN 61243-3

Rated operational conditions:

- operation temperature -10...+55°C
- voltage frequency range for the diode bar 15...400Hz
- maximum measurement current $I_s < 0,2A / I_s(5s) < 3,5\text{mA}$