



ILLKO, s.r.o., Masarykova 2226, 678 01 Blansko, CZ  
 Registration No. 600-OR-025-03  
 Tel./fax: +420 516 417 355  
 E-mail: illko@illko.cz  
 www.illko.cz

Erser Coşgun

## Calibration Certificate No.: Rp343

**Customer:** INITIAL CALIBRATION  
**Instrument:** REVEXplus (USB), Serial No.: 109077  
**Description:** PAT tester  
**Manufacturer:** ILLKO, s.r.o.

Accuracy of measurement: see User's Manual.

Calibration method: Comparison in accordance with internal directives MŘ 01/98, KP 001/98 and RCD KP.

Ambient temperature: 22 ° C Ambient relative humidity: 50 %  
 Date of receipt: 12.1.2010 Date of calibration: 13.1.2010

Etalons used:

- 1) Multifunction calibrator M-140i, S.N. 411531, Calibration Certificate No. 6011-KL-S182-09, valid till 30.4.2011.
- 2) Multimeter M1T380.1, S.N. 8188383, Calibration Certificate No. M1T380/001, valid till 31.3.2010.
- 3) Resistance set KP001, S.N. 002, Calibration Certificate No. KP001\_01, valid till 30.9.2010.
- 4) Resistance set KP002, S.N. 001, Calibration Certificate No. 759/09, valid till 1.10.2010.
- 5) Wattmeter Energy Monitor 3000, Calibration Certificate No. 3437/08, valid till 30.4.2010.

The etalons used hereby are either directly or through other calibration laboratories connected to etalons of Czech Institute of Metrology.

### Comparison of set values and measured values – earth bond resistance:

R <sub>set</sub> (Ω)	0,000	0,0941	0,5539	0,9720	10,022	18,031
R <sub>Rplus</sub> (Ω)	0,000	0,091	0,551	0,972	10,06	18,04

Measurement uncertainty: ± 0,25 % of set value for R ≤ 0,1 Ω; ± 0,1 % of set value for R > 0,1 Ω

### Comparison of set values and measured values - insulation resistance:

U = 500 V	R <sub>set</sub> (MΩ)	0,4993	0,9989	3,0086	10,029	18,068	80,35
	R <sub>Rplus</sub> (MΩ)	0,4974	0,997	3,007	10,01	17,97	80,1
	I <sub>N</sub>	1,06 mA					

Measurement uncertainty: ± 0,2 % of set value

### Comparison of set values and measured values - leakage currents:

Substitute leakage current		PE current during operation		Differential leakage current	
I <sub>set</sub> (mA)	I <sub>SUB</sub> (mA)	I <sub>set</sub> (mA)	I <sub>PE</sub> (mA)	I <sub>set</sub> (mA)	I <sub>Δ</sub> (mA)
0,000	0,000	0,000	0,000	0,000	0,000
0,499	0,492	0,8338	0,833	0,8338	0,834
4,876	4,83	5,106	5,10	5,106	5,11
16,799	16,86	8,750	8,76	8,750	8,76

Measurement uncertainty: ± 0,3 % of set value