

Function	Measured Quantity	Display Range	Resolution	Input Impedance / Test Current	Measuring Range	Nominal Values	Measuring Uncertainty	Intrinsic Uncertainty	Connections											
									PRO-CH PRO-GB adapter †	KS-PROFITEST INTRO 2-pin	3-pin									
U I <sub>ΔN</sub> I <sub>F</sub>	U <sub>L-PE</sub> U <sub>N-PE</sub>	0.0 ... 99.9 V 100 ... 600 V	0.1 V 1 V	5 MΩ	0.3 ... 600 V <sup>1</sup>	U <sub>N</sub> = 120/230/ 400/500 V  f <sub>N</sub> = 16%/50/60/ 200/400 Hz	±(2% rdg.+5d) ±(2% rdg.+1d)	±(1% rdg.+5d) ±(1% rdg.+1d)	●	●	●									
	f	15.0 ... 99.9 Hz 100 ... 999 Hz	0.1 Hz 1 Hz		DC 15.4 ... 420 Hz		±(0.2% rdg.+1d)	±(0.1% rdg. + 1 d)												
	U <sub>3-</sub>	0.0 ... 99.9 V 100 ... 600 V	0.1 V 1 V		0.3 ... 600 V		±(3% rdg.+5d) ±(3% rdg.+1d)	±(2% rdg.+5d) ±(2% rdg.+1d)				●	●							
	U <sub>L-N</sub>	0.0 ... 99.9 V 100 ... 600 V	0.1 V 1 V		1.0 ... 600 V <sup>1</sup>		±(3% rdg.+5d) ±(3% rdg.+1d)	±(2% rdg.+5d) ±(2% rdg.+1d)												
	U <sub>ΔN</sub>	0.0 ... 70.0 V	0.1 V	0.3 · I <sub>ΔN</sub>	5 ... 70 V		+13% rdg. + 1 d	+1% rdg. -1d +9% rdg. + 1 d												
	R <sub>E</sub>	10 Ω ... 999 Ω 1.00 kΩ ... 6.51 kΩ 3 Ω ... 999 Ω 1 kΩ ... 2.17 kΩ 1 Ω ... 651 Ω 0.3 Ω ... 99.9 Ω 100 Ω ... 217 Ω 0.2 Ω ... 9.9 Ω 10 Ω ... 130 Ω	1 Ω 0.01 kΩ 1 Ω 0.01 kΩ 1 Ω 0.1 Ω 1 Ω 0.1 Ω 1 Ω	I <sub>ΔN</sub> = 10 mA · 1.05 I <sub>ΔN</sub> = 30 mA · 1.05 I <sub>ΔN</sub> = 100 mA · 1.05 I <sub>ΔN</sub> = 300 mA · 1.05 I <sub>ΔN</sub> = 500 mA · 1.05	Calculated value Off R <sub>E</sub> = U <sub>ΔN</sub> / I <sub>ΔN</sub>	U <sub>N</sub> = 120 V 230 V 400 V <sup>2</sup>  f <sub>N</sub> = 50/60 Hz  U <sub>L</sub> = 25/50 V				●	●									
													I <sub>F</sub> (I <sub>ΔN</sub> = 6 mA)	1.8 ... 7.8 mA	0.1 mA	1.8 ... 7.8 mA	1.8 ... 7.8 mA	I <sub>ΔN</sub> = 6 mA 10 mA 30 mA 100 mA 300 mA 500 mA <sup>2</sup>	±(7% rdg. + 2d)	±(3.5% rdg. + 2 d)
													I <sub>F</sub> (I <sub>ΔN</sub> = 10 mA)	3.0 ... 13.0 mA	3.0 ... 13.0 mA	3.0 ... 13.0 mA				
													I <sub>F</sub> (I <sub>ΔN</sub> = 30 mA)	9.0 ... 39.0 mA	9.0 ... 39.0 mA	9.0 ... 39.0 mA				
													I <sub>F</sub> (I <sub>ΔN</sub> = 100 mA)	30 ... 130 mA	30 ... 130 mA	30 ... 130 mA				
	I <sub>F</sub> (I <sub>ΔN</sub> = 300 mA)	90 ... 390 mA	90 ... 390 mA	90 ... 390 mA																
	I <sub>F</sub> (I <sub>ΔN</sub> = 500 mA)	150 ... 650 mA	150 ... 650 mA	150 ... 650 mA	150 ... 650 mA															
	U <sub>Δ</sub> / U <sub>L</sub> = 25 V	0.0 ... 25.0 V	0.1 V	Same as I <sub>Δ</sub>	0 ... 25.0 V	+10% rdg. + 1 d	+1% rdg. -1d +9% rdg.+ 1d													
	U <sub>Δ</sub> / U <sub>L</sub> = 50 V	0.0 ... 50.0 V			0 ... 50.0 V															
	t <sub>A</sub> (I <sub>ΔN</sub> · 1)	0 ... 999 ms	1 ms	6 ... 500 mA	0 ... 999 ms	±4 ms	±3 ms													
t <sub>A</sub> (I <sub>ΔN</sub> · 2)	0 ... 999 ms	1 ms	2 · 6 ... 2 · 500 mA	0 ... 999 ms																
t <sub>A</sub> (I <sub>ΔN</sub> · 5)	0 ... 40 ms	1 ms	5 · 6 ... 5 · 300 mA	0 ... 40 ms																
Z <sub>L-PE</sub> Z <sub>L-N</sub>	Z <sub>L-PE</sub> (AC) Z <sub>L-N</sub>	0 ... 999 mΩ 1.00 ... 9.99 Ω	1 mΩ 0.01 Ω 0.1 Ω	1.3 ... 3.7 A AC 0.5/1.25 A DC	300 ... 999 mΩ 1.00 ... 9.99 Ω	U <sub>N</sub> = 120/230 V 400/500 V <sup>1</sup> f <sub>N</sub> = 16%/50/60 Hz	±(10% rdg.+30d) ±(8% rdg.+3d)	±(5% rdg.+30d) ±(3% rdg.+3d)	●	●	Z <sub>L-PE</sub>									
	Z <sub>L-PE</sub> (AC) + DC	0 ... 999 mΩ 1.00 ... 9.99 Ω 10.0 ... 29.9 Ω			500 ... 999 mΩ 1.00 ... 9.99 Ω	U <sub>N</sub> = 120/230 V f <sub>N</sub> = 50/60 Hz	±(18% rdg.+30d) ±(10% rdg.+3d)	±(6% rdg.+50d) ±(4% rdg.+3d)												
	I <sub>K</sub> (Z <sub>L-PE</sub> AC)	0.0 ... 9.9 A 10 ... 999 A	0.1 A 1 A		120 (108 ... 132) V 230 (196 ... 253) V 400 (340 ... 440) V 500 (450 ... 550) V	Value calculated from Z <sub>L-PE</sub>														
	Z <sub>L-PE</sub> (AC) + DC	1.00 ... 9.99 kA 10.0 ... 50.0 kA	10 A 100 A																	
	Z <sub>L-PE</sub> (15 mA)	0.5 ... 9.99 Ω 10.0 ... 99.9 Ω 100 ... 999 Ω	0.01 Ω 0.1 Ω 1 Ω		Display range only			±(10% rdg.+10d) ±(8% rdg.+2d)				±(2% rdg.+2d) ±(1% rdg.+1d)								
	I <sub>K</sub> (15 mA)	100 ... 999 mA 0.00 ... 9.99 A 10.0 ... 99.9 A	1 mA 0.01 A 0.1 A		15 mA AC	Calculated value depends on U <sub>N</sub> and Z <sub>L-PE</sub> : I <sub>K</sub> = U <sub>N</sub> / 10 ... 1000 Ω	U <sub>N</sub> = 120/230 V f <sub>N</sub> = 16%/50/60 Hz	Value calculated from Z <sub>L-PE</sub> (15 mA): I <sub>K</sub> = U <sub>N</sub> / Z <sub>L-PE</sub> (15 mA)												
R <sub>E</sub>	R <sub>E</sub> (AC)	0 ... 999 mΩ 1.00 ... 9.99 Ω 10.0 ... 99.9 Ω 100 ... 999 Ω 1 kΩ ... 9.99 kΩ	1 mΩ 0.01 Ω 0.1 Ω 1 Ω 0.01 kΩ	1.3 ... 3.7 A AC 1.3 ... 3.7 A AC 400 mA AC 40 mA AC 4 mA AC	300 ... 999 mΩ 1.00 Ω ... 9.99 Ω 10.1 Ω ... 99.9 Ω 100 Ω ... 999 Ω 1.00 kΩ ... 9.99 kΩ	U <sub>N</sub> = 120/230 V U <sub>N</sub> = 400 V <sup>1</sup> f <sub>N</sub> = 50/60 Hz	±(10% rdg.+30d) ±(5% rdg.+3d) ±(10% rdg.+3d) ±(10% rdg.+3d) ±(10% rdg.+3d)	±(5% rdg.+30d) ±(3% rdg.+3d) ±(3% rdg.+3d) ±(3% rdg.+3d) ±(3% rdg.+3d)	●	●										
	R <sub>E</sub> DC+	0 ... 999 mΩ 1.00 ... 9.99 Ω 10.0 ... 29.9 Ω	1 mΩ 0.01 Ω 0.1 Ω	1.3 ... 3.7 A AC 0.5/1.25 A DC	500 ... 999 mΩ 1.00 ... 9.99 Ω	U <sub>N</sub> = 120/230 V f <sub>N</sub> = 50/60 Hz	±(18% rdg.+30d) ±(10% rdg.+3d)	±(6% rdg.+50d) ±(4% rdg.+3d)												
	U <sub>F</sub>	0 ... 253 V	1 V	—	Calculated value															
U <sub>b</sub>	U <sub>b</sub>	Limit LED on		Reb = 100 kΩ	0 ... 440 V	U <sub>N</sub> = 120/230/ 400 V f <sub>N</sub> = 50/60 Hz	45 V ± 15 V	45 V ± 5 V	Finger contact											