

## General data of GENIUS 5035 + 5080 E + GSC-53

Display	Grafic display, back light
Memory	128 kbyte
Interface	RS232
Recording interval	adjustable from 5 sec. up to 15 min. (only Genius 5080 E)
Memory	2 MB, (Genius 5080E + GSC 53) for appr. 700 - 1000 measuring quantities for VDE 0100 resp. max. 67 days recording
Auto power off	10 min.

## General data of GENIUS 5035 + 5080 E

Autonomy	5000 measurements
Operation temperature	0 - 40 °C
Relative humidity	85 %
Safety: EN61010	CAT III 600 V
Protection class	IP50
Dimension	225 x 165 x 120 mm
Weight	appr. 1500 g
Power supply	6 x 1,5 V, AA LR6

## Technical features of GENIUS 5035 + 5080 E + GSC-53

<b>Analog input (only Genius 5080 E + GSC-53)</b>		-1000 m VDC - +1000 mV DC
Resolution		0,1 mV
Accuracy		± (2 % reading + 2 digits)
Temperature adapter	(HT52)	-40 °C - 80 °C
Humidity	(HT52)	10 - 98 % RH
Intensity of light	(HT53)	0 - 20.000 Lux
<b>Low Ohm range</b>		0 - 20 Ohm
	Resolution	0,01 Ohm
	Accuracy	± (2 % reading + 2 digits)
	Test current	> 200 mA DC
	Open circuit voltage	> 4,5 V
	Test lead compensation	Yes
<b>Insulation resistance</b>		
	Test current	100, 250, 500, 1000 V DC
	Range	0 - 1,999 MOhm 2 - 19,99 MOhm 20 - 999,9 MOhm
	Resolution	1 kOhm 10 kOhm 100 kOhm
	Accuracy	± (2 % reading + 2 digits)
	Open circuit voltage	1,3 x test voltage
	Short circuit current	1,4 mA (max.)
	Rated voltage	1 mA
<b>Earth resistance</b>		
	Range	0 - 19,99 Ohm 20 - 199,9 Ohm 200 - 1999 Ohm
	Resolution	0,01 Ohm 0,1 Ohm 1 Ohm
	Accuracy	± (2 % reading + 2 digits)
	Frequency	125 Hz ± 1 Hz (Sinus)
	Test current	≤ 10 mA
	Open circuit voltage	≤ 80 V
<b>Loop impedance</b>		<b>Phase-Phase (Zpp), Phase-Neutral (Zpn), Phase-Earth(Zpe)</b>
	Range	0 - 19,99 Ohm 20 - 199,9 Ohm 200 - 1999 Ohm
	Resolution	0,01 Ohm 0,1 Ohm, 1 Ohm
	Accuracy	± (2 % reading + 2 digits)
	Measuring	10 A ± 10 % (10 m s)
<b>Calculation of short circuit current</b>		
	Ik max	40 kA
<b>Earth resistance RE without RCD tripping</b>		
	Range RE	0,1 Ohm - 10 kOhm
	Test current	0,5 IΔN RCD

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<b>Earth resistance RE without RCD tripping</b>		
	Accuracy	+ 10 % - 0 % ± 0,2 V/IΔN
<b>AC Voltage</b>		
	Range	500 V
	Resolution	1 V
	Accuracy	± (2 % + 2 Ziffern)
<b>Current (with Clamp-on A 200 only Genius 5080 E)</b>		
	Range	200 A/1V
	Basic accuracy	± (1 % ± 0,25 mV)
<b>Frequency</b>		
	Range	15,3 - 99,9 Hz 100 - 499 Hz
	Resolution	0,1 Hz 1 Hz
	Accuracy	± (0,1 % + 2 digits)
<b>Phase sequencing</b>		L1, L2, L3 or L2, L1, L3
<b>RCD tests</b>		
	RCD type	AC, A, selective
	Rated tripping currents	10 mA, 30 mA, 100 mA 300 mA, 500 mA, 1000 mA
<b>Trip Time (IΔN)</b>		
	Test current	1/2 IΔN
	(*) with control of contact voltage	2 IΔN
	(**) Excluding 500mA and 1000mA	5 IΔN RCD S** 5 IΔN RCD**
	Range	0 - 1999 ms 0 - 199,9 ms 0 - 150 ms 0 - 40 ms
	Resolution	0,1 ms*
	Accuracy	± (2 % reading + 2 ms)
<b>Trip current</b>		
	Range	(0,5 - 1,4) IΔN
	Resolution	0,1 IΔN
	Accuracy	± 0,15 IΔN
<b>Touch current</b>		
	Range	0 - 100 V
	Resolution	0,1 V
	Accuracy	+ 10 % - 0 % of UBlim
	U <sub>blim</sub>	25 V or 50 V
<b>Power (only Genius 5080 E + GSC-53)</b>		
	Accuracy	0,7 % ± 2 Digit
	Resolution	10 W
<b>Harmonics (only Genius 5080 E + GSC-53)</b>		
	Range	2 - 50. harmonic
	Accuracy	0,7 % ± 2 digits
Safety: IEC 1010 (VDE 0411)		
all measurements according to VDE 0413 (EN 61557)		