LEAKAGE CURRENT, POWER MEASUREMENT, FUNCTIONAL TEST

FMG500, FMG501

mA VA W A cosφ

FMG501

- leakage current measurement, single and three phases power measurement, cosφ, functional test
- "one button check-up" for easy test
- **RS232** or **IEEE488-2** multi-lingual software
- easy to use and user friendly interface
- dedicated for laboratory and production lines
- complies with **EN61010-1, EN60065, EN60335-1, EN60598-1, EN60601-1, EN60950, CEI990**, and many other standards

" In order to comply with any laboratory or production application, FMG series is constantly following the international standard evolutions "

	FMG500 (autonomnous tester)	FMG501 (slave from SMG50/500)
Leakage current measurement		
Current measuring range	from 0,1 µA up to 80 mA (according to the standard)	
Accuracy	±(2% + 0,02 or 0,2 according to the range) of the reading value	
Voltage measurement	from 10 to 400 V, single phase or three phases	
Accuracy	±(2,5% + 0,5V) of the reading value	
Power measurement		
Real/active power measuring range	up to 7 000 W, single phase or three phases	
Accuracy	±(2,5% + 5,10 or 20W according to the range) of the reading value	
Apparent power measuring range	up to 7 000 VA, single phase or three phases	
Accuracy	±(5% + 5, 10 or 20 VA according to the range) of the reading value	
Consumption current measuring range	0 to 32 A	
Accuracy	±(2,5% + 0,05, 0,1 or 0,2 A according to the range) of the reading value	
Power factor measuring range	from 0 to 1	
Accuracy	±(7,5% + 0,1) for $P_{apparent}$≥100 VA or 300 VA according to the range	
Other specifications		
Dimensions (W x H x D)	430 x 180 x 470 : 4U / 19''	430 x 180 x 470 : 4U / 19''
Weight	depends on configuration	

	Application field	Applied voltage	Measurement circuit
Available standards			
EN61010-1	Measurement, control & laboratory	U_n x 1,10	Figure A.1, A.2, A.3
EN60335-1	Household	U_n or U_n x 1,06	Figure 4 of IEC990
EN60950	Information technology	$U_{nominal}$	Figure 4 of IEC990
EN60598-1	Lighting	$U_{nominal}$	Figure 4 & 5 of IEC990
EN60065	Household and similar general use	U_n, U_n x 1,06 or U_n x 1,09	50 kΩ or 2 kΩ
EN60601-1	Medical	U_n x 1,10	Figure EN60601
IEC990	Generic standard	-	IEC990 standard

IEC990 standard

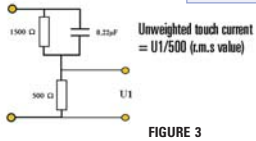

FIGURE 3

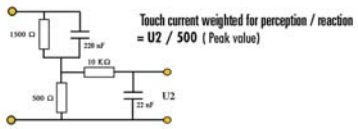

FIGURE 4

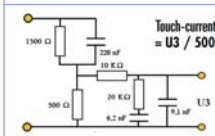

FIGURE 5

FMG500

EN60601-1 standard

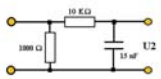

FIGURE EN60601

EN61010-1 standard

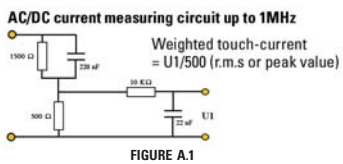

FIGURE A.1

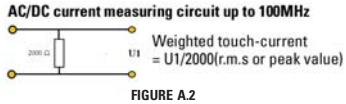

FIGURE A.2

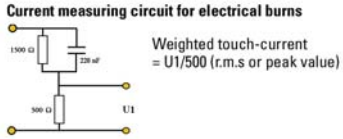

FIGURE A.3