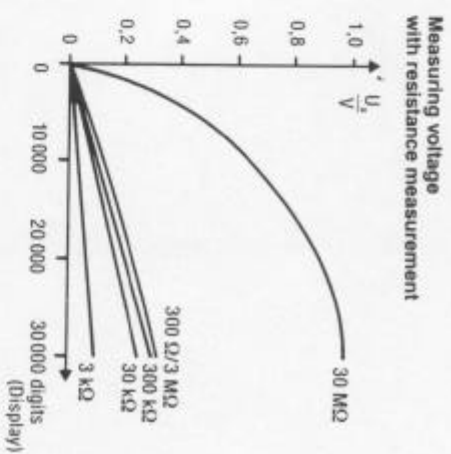


4. Technical Data

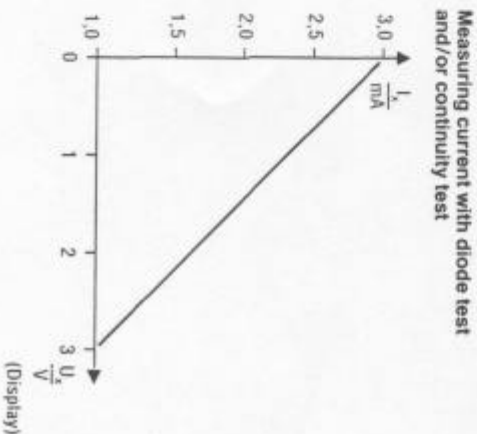
Measuring function	Measuring range	Resolution	Input impedance approx.	Intrinsic error (under reference conditions) of digital display $\pm (\dots \% \text{ of rdg.} + \dots \text{ digit})$	Intrinsic error (under reference conditions) of analog indication $\pm \dots \% \text{ of upper limit}$	Overload capacity ¹⁾ at +5...+40°C Overload value	Overload duration
V _{DC}	300.00 mV	10 μ V	10 M Ω /100 pF	0.05 + 3 ⁶⁾	1.3	500 V _{max}	10 min.
	3.0000 V	100 μ V	11 M Ω /60 pF			1200 V _{max}	continuously
	30.000 V	1 mV	10 M Ω /60 pF				
V _{AC} TRMS	300.00 mV	100 μ V	10 M Ω /100 pF	0.5 + 30 ⁶⁾	3.85	500 V _{max}	10 min.
	3.0000 V	1 mV	11 M Ω /60 pF			1200 V _{max}	continuously
	30.000 V	10 mV	10 M Ω /60 pF				
dB	See following table for ranges	same as on V _{DC}	same as on V _{DC}	$\pm 0.3 \text{ dB}^{6)}$	same as on V _{DC}	same as on V _{DC}	
		Voltage drop, approx.					
A _{DC}	300.00 μ A	10 nA	150 mV	0.3 + 6	1.6	3 A _{max}	approx. 2 min.
	3.0000 mA	100 nA	150 mV			3.6 A _{max} ⁴⁾	continuously
	30.000 mA	1 μ A	155 mV			18 A _{max} ⁵⁾	continuously
A _{AC} TRMS	300.00 μ A	10 nA	150 mV	0.75 + 30 ⁶⁾	2.1	3 A _{max}	approx. 2 min.
	3.0000 mA	100 nA	150 mV			3.6 A _{max} ⁴⁾	continuously
	30.000 mA	1 μ A	210 mV			18 A _{max} ⁵⁾	continuously
Ω	300.00 Ω	10 m Ω	5.0 V	1.0 + 30 ⁶⁾	3.7 (2.35)	500 V _{max}	10 min.
	3.0000 k Ω	100 m Ω	5.0 V				
	30.000 k Ω	1 Ω	1.25 V				
Ω	300.00 k Ω	10 Ω	1.25 V	0.4 + 6	1.7	500 V _{max}	10 min.
	3.0000 M Ω	100 Ω	1.25 V				
	30.000 M Ω	1 k Ω	1.25 V				
-	3.0000 V _{max}	100 μ V	5.0 V	0.5 + 3	1.75	500 V _{max}	10 min.

- 1) On V_{AC} and A_{AC} true root-mean-square (TRMS) measurement of the AC component
 2) Error in analog indication = error in digital display + 0.75 pointer (width)
 3) See under "Fuse" for overload protection

- 4) Referred to a display from 300 digits up
 5) 30 A for 10 s
 6) At a resolution of 0.01 dB



Voltage U_x across the resistance R_n to be measured as a function of measuring range and display.



Measuring current I_x as a function of the displayed voltage U_x across the device under test.