## **Specifications**

Measurement functions	DC AC AC	+DC voltage	18	
Frequency range		DC, AC, AC+DC voltages DC, 10 Hz to 25 MHz		
Voltage range		DC: ±0 to 300 V		
Tomago rango recent rec		: 50 µV to 3	00 V	
Range selection	AUTO, HOL		200	
Input	BNC connector, floating			
Input impedance	1 MΩ shunted by 40 pF			
Maximum input voltage	300 V <sub>rms</sub> , 500 V <sub>p</sub>			
	max. 1x10 <sup>8</sup>			
Display			splay, digital	
	and analog readout in V, W, dBV,			
	dBm, dBµV or dBu; difference,			
	deviation in % or dB and ratio to a			
	reference v			
IEC/IEEE bus	fitted as standard, all functions			
AC voltage measurement	E0 -W to 20	50 μV to 300 V		
Voltage range	1 mV to 300 V, 10-dB steps, maxi-			
hanges and resolution	mum reading 3800 or 12000 ±1			
Selectable lowpass filters	digit, maximum resolution 1 μV 20 kHz, 100 kHz Butterworth, (3-dB			
Selectable lowpass litters	cutoff frequency, 40 dB/decade)			
Selectable highpass filters	10 Hz, 100 Hz, 1 kHz (lower meas.			
Colociable Highpass interes 11111	limit. AC component in AC+DC)			
Measurement speed at lower	mind six on	tin Mary Modern Strauber	Access to the court	
frequency limit <sup>1</sup> )	time of	readout	min. meas.	
(AC component in AC+DC)	triggered	rate	frequency	
	measurement			
Speed 4	1.3 s	10/s	10 Hz	
Speed 5	250 ms		100 Hz	
Speed 6	32 ms	20/s	1 kHz	
Error limits	see table for RMS measurement,			
	plus 10 digits for DC coupling			
	(inherent noise "cancelled out" by			
Water and the second second	zero functio	on)		
Maximum crest factor	7	- Output	ar to boot-	
Weighting error				
	error crest factor <5: 1%			
	crest factor < 7: 3%			
	for spectral components up to			
	25 MHz			
	20 141112			

Temperature effect	% of rdg/°C	frequency (MHz)	
	≤0.1	<10 (<10)	
	≤0.15	<20 (<12)	
	≤0.3	<25 (<15)	
	≤0.8	- (<20)	
	values in parentheses refer to V <sub>in</sub> <3 mV		
DC voltage measurement			
Voltage range	±0 to 300 V		
Ranges and resolution	10 mV to 1000 V, 20-dB steps, maximum reading 12000 ±1 digit, maximum resolution 1 μV		
Measurement speed	time of triggered measurement	readout rate	
Speed 4	1.3 s	10/s	
Speed 5	250 ms	10/s	
Speed 6	32 ms	20/s	
Error limits	±(0.1% of rdg + 10 digits)		
Temperature effect	<(0.01% of rdg	+ 1 digit)/℃	
General data			
Operating temperature range	0 to +50 °C, for IEC 359	use in class 1 to	
Storage temperature range	-40 to +70 °C		
Permissible humidity	20 to 80% (no condensation)		
Mechanical strength	to IEC 359 class 1		
RFI suppression	to DBP regulations 1046/1984		
Power supply		10 V ±10%, 47 to	
		safety class 1 to	
D	VDE 0411 and II		
Dimensions (W x H x D) Weight	219 mm x 103 n 4.5 kg	nm x 350 mm	
Ordering information			
Order designation	▶ RMS Voltmete	elipe 2	

Order designation . . . . . . RMS Voltmeter URE 2 350.5315.02

1) When the measurement speed is increased, the required highpass filter is automatically switched into circuit. At lower measurement speeds, the higher-frequency highpass filters can be selected as desired. There are no speeds 0 to 3.

## Error limits of RMS measurement (23 ±5 °C)

