












DESIGNATION		TRI-PHASE ACCURATE RATIO METER (Portable unit)					
<b>Configuration</b> - Touch Screen 7" - or Keyboard/Mouse - or PC control  Rack presentation or rack case on simple request <b>Dimensions &amp; Weight</b> · Length x Width (mm) · Height / Depth (mm) · Weight (Kg)	<b>MRT 3</b> 4 Test Voltages, option for 5 tests voltages è Mono Phase injection (Automatic phase after phase)		<b>MRT 3 G</b> 5 Test Voltages, option for 6 tests voltages è Mono Phase injection (Automatic phase after phase)				
	 <p style="text-align: center;"><b>Proof Case IP 67</b></p>		 <p style="text-align: center;"><b>Proof Case IP 67</b></p>				
<b>Main applications</b> · Power Transmission & Distribution Transformers · Auto Transformers · Instrument Transformers (CT, VT & CVT's)		ü ü ü					
<b>Main functions</b> · Direct measurement of turns ratio · Ratio error detection · Phase angle error detection · Polarity test · Interturn short circuit detection · Cut spire / circuit detection · Coupling connection & / Tap changer error · Inversion of sub-coils detection · <b>Abnormality in magnetic circuit detection</b>		ü ü ü ü ü ü ü ü					
<b>Main characteristics</b> · Power supply · Test Frequency (of Main power supply)  · Test Voltages · Clock Index / Vector group		85 V - 264 V / 45 Hz - 65 Hz (+ Autonomous power supply on rechargeable battery in option) Industrial frequency of the mains power supply					
<b>Measuring specification</b> · Simultaneous display of results on 3 phases · Turns ratio range · Phase angle · Excitation current		3V - 10V - 40V - 120V (Mono) (+ 220V mono in option) 00 - 11		3V-10V-40V-120V + Option 220V (Mono) + 40V (Tri-phase) 00 - 11 & 0°00' - ± 180,00°			
		<b>Measuring Range</b> ü 0.1 / 1 --> 20 000 / 1 0° - ± 180° 0 - 1 A	<b>Display</b> ü 5 1/2 digits 5 1/2 digits 6 or more digits	<b>Resolution</b> ü 1.10 <sup>-4</sup> 0.01° 1 µA	<b>Accuracy</b> ü £ 0.025 % Rdg. ± 1 digit £ 0.5° Rdg. ± 1 digit £ 1.0 % Rdg. ± 1 digit		
<b>Vettiner - Customer benefit</b> · <b>Over 86 years experience / Ratio test (since 1933)</b> · All transformers types mono & three-phase · Easy use (Built-in soft assistance in addition) · fast measurements (Few secondes only) · <b>Automatic Vector Group detection</b> · <b>Up to 1 spire more or less detection</b> · <b>Ready/ Edition of a test report on Excel or pdf...</b> · <b>Built-in internal memory of test results/PC Transfer</b> · <b>2 USB plugs (Storage, printing, ...)</b> · Sturdiness & reliability over time · Total safety of operator · Built-in auto test & auto protection · <b>2 years warranty</b> · After sales service							
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		<b>2 years included, 3 or 5 years in option</b> <b>10 years service guaranteed, up to 50 years service recorded</b>					
<b>Environment</b> · Operating temperature · Storage temperature		0 °C up to + 40 °C - 10 °C up to + 50 °C					
<b>Eventual options or accessories</b> Available sets of measuring cables : Different length & clamps · All possible combinations are available including possibility of addition of different length of extension cables 1. Select your required length of cables "extension" (" XX ") 2. Select your expected size of clamps with octopus cables Ex. 5 m Extension cable + octopus with small crocodile clamps è = 5 m cables test set (Note: already included)		<b>References</b> TCA-MRT 5 TCAG-MRT XX TCAR-MRT XX					
· Octopus cables with large clamps · Cables extension (without octopus cables) : 5 m, 10 m, 15 m or XX m & cumul of extension like 5 m + 10 m extensions or other combination · Remote control / tap changer test · True Three 40 V generator (= " G " option) · Autonomous supply /12V rechargeable battery · Artificial neutral (When neutral not accessible) · Multi-ratio standard for calibration		<b>Description of part of cables</b> New High Quality of re-enforced elastomere cables					
		<b>Cables Extension</b> "HV" side & "LV" side  		<b>Octopus Cables + small Clamps</b> "HV" side & "LV" side  		<b>Octopus Cables + large Clamps</b> "HV" side & "LV" side  	
		TCA MRT 5	5 m	1,25 m*	1,25 m*		
		TCA MRT 10	10 m	1,25 m*	1,25 m*		
		TCA MRT 15	15 m	1,25 m*	1,25 m*		
		TCA MRT XX	XX m under request	1,25 m*	1,25 m*		
		Extensions are "inter-connectable" together Remote control is only compatible with full cable set mounted with small crocodile cables only		* Octopus cables length can be increased under request			
		TCA-RCU-MRT GTR ASS 12-230 Nart C-PRT-MRT		GTR (ü already included inside MRT 3 G) ASS 12-230 Nart C-PRT-MRT			
		 					
<b>Calibration</b> · Vettiner calibration certificate included · External laboratory calibration certificate		ü ISO 17 025 on request, in option					

