

Applications Highly precise, portable measuring system for functional tests on various types of protection equipment. Three voltage and three current outputs allow three-phase tests on static and digital protection relays. The device can be operated and controlled either with a PC and the ARTES testing software or alternatively by means of the built-in control panel equipped with a high-resolution, resistive 5" touch screen, function keys and a jog wheel.

Sources All signals can be set separately and independently of one another as regards phase, amplitude and frequency. The output quantities of the current and voltage amplifiers are monitored by means of internal feedback measurements. If the output quantities do not agree with the setpoint values, a warning is issued to this effect. All outputs also have overload and short-circuit protection.

	General	Frequency range Transient signals	DC3 kHz DC4 kHz	
		Frequency resolution Frequency accuracy	0.001 Hz Error < 0.01%	
		Phase angle Phase resolution Phase accuracy	0360° 0.001° Error < 0.05° ¹⁾	
	Voltage outputs	3-phase (L-N) 1-phase (L-L)	3 x 0300 V / 100 VA ³⁾ 1 x 0600 V / 150 VA ³⁾	
		Resolution Accuracy THD	13 mV Error < 0.05% ^{1),2)} < 0.05% ¹⁾	
	Current outputs	3-phase 1-phase	3 x 016 A / 40 VA ³⁾ 1 x 032 A / 80 VA ³⁾	
		Resolution Accuracy THD	1 mA Error < 0.05% ^{1),2)} < 0.05% ^{1),2)}	
	DC output	Output range Output power	12260 VDC 50 W, max. 2 A	
		Accuracy Protection	Error < 5% Overload and short-circuit protection	
Binary inputs	The binary inputs are configurable for measuring dry or wet contacts.			
		Number	4	
		Response threshold Max. measurement duration Sampling rate	24300 VDC, or potential-free contact unlimited 8 kHz	
		Protection	Transient protection, polarity protection and galvanic isolation via opto-couplers	
Binary outputs	Relay	Number	2	
		AC switching capacity DC switching capacity	0250 VAC, 8 A, resistive load 0300 VDC, I _{max} = 8 A, 50 W	
		Protection	Potential-free and galvanically isolated output relays Operation via software or function keys	

¹⁾ For the frequency range of 10...100 Hz

Bina

2) Of range ³⁾ For symmetrical output quantities, supply voltage 230 VAC, 50 Hz



Compl	ete
syst	tem

ARTES RC3 is housed in an extremely robust and resistant hard shell case. All interfaces and plugs for connecting the unit under test are well protected inside the case. A cable compartment integrated in the case lid also offers sufficient space for the cable set included in the scope of delivery.

Operation	PC Stand-alone	ARTES 5 testing software for Windows [®] 7/8/10 5" touch screen, high-resolution, resistive 6 function keys and a jog wheel
Connections/	Measurement connections	4 mm safety sockets
interfaces	Interfaces	USB, 3 x Ethernet, Wi-Fi
	Status LEDs	Indication of active current and voltage outputs and of the status of the binary inputs and outputs by LEDs
Supply voltage	Rated voltage Wattage	100265 VAC, 4763 Hz / 120265 VDC 1000 W
Construction	Housing Protection	Hard shell case in accordance with ATA 300, ASTM D-4169 MIL-STD-810F IP67 (closed)
	Dimensions (W x H x D) Weight	505 x 257 x 409 mm 15.8 kg
Environment	Operating temperature Storage temperature Relative humidity	050°C -2060°C 590%, non-condensing
Generic standards	Safety EMC EMC emissions Susceptibility	EN 61010-1, 150 V CAT IV; 300 V CAT III; 600 V CAT II EN 61326-1 EN 61000-6-4 EN 61000-6-2

