

## AUTOMATIC RELAY TEST EQUIPMENT



### **Introduction:**

KIGG Limited is a leading British designer, developer and manufacturer of electrical and electronic systems for private industry, governments and non-governmental organizations..

KIGG has achieved accreditation in the internationally recognized quality management standard ISO9002:2008, and continuously strives to provide quality solutions designed to fit customer needs. In addition, we are currently working towards gaining further accreditation in the ISO/IEC17025 laboratory standard. The company is also a member of the British Standards Institute ([www.bsi-global.com](http://www.bsi-global.com)), and South Wales Chamber of Commerce ([www.southwaleschamber.co.uk](http://www.southwaleschamber.co.uk)).

KIGG offers services in the area of consulting, commissioning, testing, diagnosis and training make the product range complete. Worldwide customers rely on KIGG's ability to supply leading edge technology.. Our Service centers provide a broad base of knowledge and extraordinary customer support.

All of this together with our strong network of sales partners is what has made our



company a market leader in electrical testing products.

## **Automatic Relay Test Kit - ARTE**

The ARTE kit is the universal solution for testing all types of relays. Its powerful current sources make the unit capable of testing even high-burden electromechanical relays with very high power demands. This Kit is the first choice for applications requiring the highest versatility, amplitude and power. Commissioning engineers will particularly appreciate its ability of ease of operation.

The analog test signals are generated digitally using DSP technology. This, in combination with the use of additional error correction algorithms, results in accurate testing signals even at small amplitudes.

Besides its operation with the powerful Test software running on a PC, the ARTE kit series can also be manually controlled.

ARTE - Automatic test kit system with 6 current and 6/4 voltage channels can be programmed independently for adjustable amplitude, phase and frequency. All outputs are overload and short-circuit proof and are protected against external high-voltage transient signals and over-temperature.

In ARTE user can adopt the concept of logic channel which means that user can define different usage channels (Connection of channel in series/parallel, independent source of DC, independent AC source) By dialogue box, users can configure the single-phase system, three-phase system or arbitrary system. The excessive channels can be in series or parallel with channels which constitute the system and independently output DC or AC.

Standard Technical parameters of the kit are tabulated below and the ratings / configuration can be changed depending on customer requirement.

Sr.No.	Technical index	
1	VOLTAGE GENERATORS/AMPLIFIERS	
	[a] No. of Sources/Channels	6 channels
	[b] Voltage Output:	10-300 V AC (P-N)
	[c] Power:	75 VA
	[d] Accuracy	Better than 0.2%
	[e] Resolution	5mv
	[f ] Distortion:	Less than 0.2%
2	CURRENT GENERATORS/AMPLIFIERS	
	[a] No. of Sources/Channels	6
	[b] Current Output:	0 – 60 A (rms)
	[c] Power:	300 VA/ph
	[d] Accuracy	Better than 0.2%
	[e] Resolution	1mA
	[f] Distortion:	Less than 0.2%
3	FREQUENCY GENERATORS	
	[a] Range Sine Signal	10Hz to 1KHz
	[b] Transient Signal	DC Hz to 3kHz [min]
	[c] Resolution	1mHz
	[d] Accuracy	0.01%
4	PHASE ANGLE	
	[a] Range	0 to 360 °
	[b] Resolution	0.1 °
	[c) Accuracy	0.5°
5	AUX. DC SUPPLY	
	[a] Output	0 to 300V
	[b] Power	50W, Continuous rating
6	BINARY INPUTS	
	[a] No. of inputs	8 pairs inputs
	[b] Voltage	0-250V AC/DC
	[c] Whether binary input are galvanically isolated	confirm
	[d] Time resolution	100 micro sec.
7	BINARY OUTPUTS	
	[a] No. of outputs	4 pairs outputs
	[b] Breaking Capacity	8 Amp/250v AC/DC [min.]
8	Operating temperature range for relay test kit in deg. C	0 to 50°C
9	Power supply voltage for test kit in volts	230 V+ /- 20%
10	Frequency of power supply for test	50 Hz + /- 5%



	kit in Hz	
11	Facility of communication through 'GOOSE protocol' as per IEC61850	Available
12	PC/Laptop	Available with the kit with dedicated software (separate)
13	GPS connectivity	Available
14	Typical weight without PC	Less than 25 Kg

**OTHER RANGES ARE ALSO AVAILABLE ON REQUEST.**

For further queries please contact:

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