



SINGLE PHASE PROTECTION RELAY TEST SYSTEM

Utility • Oil & Gas • Industrial



MICROTEST 850 SV

MECHATRONIC Series

MICRO TEST 850sv has been crafted specifically for secondary testing of protection relays. With test outputs of up to 50A a.c., 240V a.c. / d.c., various auxiliary voltages & a built-in timer resolution of 1ms, this unit is ideal for testing the functionality & operation times of protection relays.

This light weight equipment is designed for use in high voltage substations & industrial environments.

TECHNICAL SPECIFICATION

AC current output (Continuously adjustable)

Range	No-Load Voltage (min)	Full-Load Current	Duty Cycle (ON circuit / OFF circuit)
0 – 5 A	25 V	5 A	10 min / 15 min
0 – 30 A	5.5 V	20 A	5 min / 15 min
	9 V	30 A	2 min / 15 min

* Maximum generated output of 50 A is sustainable for approximately 2 seconds

The output transformer is equipped with built-in temperature protection. The primary side is protected by miniature circuit breakers.

AC/DC voltage output (Continuously adjustable)

Range	Duty Cycle (ON circuit / OFF circuit)	Full-Load Current (max)
0-240 V AC	15 min / 30 min	2 A
0-300 V DC	15 min / 30 min	2 A

+ Voltage sources are independently protected by re-triggerable fuses

AC/DC voltage output + (Fixed)

Range	Duty Cycle (ON circuit / OFF circuit)	Full-Load Current (max)
240 V AC	15 min / 30 min	0.5 A
30 V DC	15 min / 30 min	0.5 A
110 V AC 110 V DC	30 min / 30 min	0.5 A

Timer

Range	0.000 s – 999.999 s
Accuracy	1 ms
Max. Test Time	999.999 s
Functions	ON + Timer Start OFF ON OFF + Timer Start
* Unit is built with auto-reclose timer * Separate wet and dry contacts available for triggering	

Supply Voltage

220 – 260 V AC
50/60 Hz

MEASUREMENTS

* Digital display of output parameters on a backlit LCD

Measured quantities

AC/DC Current		AC Voltage	
Range	0-50 A	Range	0-500 V
Accuracy :± 0.5% of metering (True RMS measurement)			



Set of resistors

1 Ohm (5 A max.)	25 Ohm (2 A max.)	500 Ohm (0.3 A max.)
0.5 Ohm (10 A max.)	100 Ohm (0.7 A max.)	

Weight & Dimensions

Weight	9 Kg
Dimensions	10.0" x 9.5" x 6.0"

Others

Operating Temperature	0 to +55°C
Storage Temperature	-40 to +70°C

* Due to continuing development and improvements, specifications are subject to change without prior notice.

Accessories

MICRO TEST 860 is supplied with the following accessories:

- Mains cable
- Connection cables
- Operation Manual
- Calibration Certificate
- 1 year warranty



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