

LET-4000-RD

Primary Relay and Current
Injector Test Set



SMC
EURO

LET-4000-RD

MAIN FEATURES

- Permanent current up to 4000A, 8kVA in 4 ranges.
- Made up of two units.
- Built in digital ammeter 0.5% accuracy.
- Built in digital timer resolution 1 ms.
- Thermal and shortcircuit protection.

APPLICATIONS

- Direct and motor overload relay test.
- In general, primary tests including the complete loop, i.e., current transformer, leads, protective relay and circuit breaker.



DESCRIPTION

The LET-4000-RD is designed to perform most of the primary tests that are necessary in substations commissioning. It allows to perform with sufficient power, all the primary current injections to test the proper function and wiring of all the elements that compose the protection and measuring section in a substation.

The regulation system is based on a continuously variable autotransformer (Variac) that supplies to a power transformer that delivers the high current outputs and isolate the main supply from the load. A built-in ammeter and a timer gives the information about the current value and the operation time of the relay or breaker under test.

FEATURES

Power outputs

There are four different current outputs:

- 0 - 4000A 0 - 2V
- 0 - 2000A 0 - 4V
- 0 - 1000A 0 - 8V
- 0 - 500A 0 - 16V

Timer

In the control and regulation unit there is a timer installed that can work with dry signals or with voltage signals the timer can measure in CYCLES as well it is an autorange, 5-digit digital timer with the following measuring ranges:

- 00.001 - 99.999 s
- 99.999 - 999.99 s
- 999.99 - 9999.9 s
- 9999.9 - 99999 s

Ammeter

Installed in the control and regulation unit it is a digital instrument of 4 digits. The accuracy is $\pm 0.5\%$ of the reading ± 1 digit.

Protections

The equipment is protected by thermal and shortcircuit magnetic relays. The outputs are also thermal protected to avoid excess in the duty cycle. Once this protection trips the connection of the output is not possible until the thermal element detects that the temperature drops to an acceptable and safe level.

STANDARD ACCESORIES

- 1 voltage supply cable 3 meters length.
- 2 connection leads for testings 3 meters length.
- Interconnection cable.
- 2 timer connection leads, 2 meters length with 2 crocodile clips.
- Spare fuses.
- Instruction manual.
- 2 nylon protection covers.

TECHNICAL SPECIFICATION

DUTY CYCLE

Max. Continous Current	Max. Current 60 min	Max. Current 15 min	Max. Current 3 min	Max. Current 1 min	Max. Current 1 s	Open Circuit Voltage
4000 A	4800 A	7200 A	9600 A	12000 A	21.6 kA	2.65V
2000 A	2400 A	3600 A	4800 A	6000 A	10.8 kA	5.30V
1000 A	1250 A	1800 A	2500 A	3100 A	5.6 kA	10.45V
500 A	630 A	900 A	1250 A	1550 A	2.8 kA	21.55V
Cooling time*	15 min.	20 min.	20 min.	30 min		

*Guaranteed values at ambient temperature < 25°C

TIMER

Range:	00.001 to 99999 seconds (Autorange)
Accuracy:	$\pm 0.003\% \pm 1$ digit of the reading value
Start and Stop:	By operation of the Start and Stop monitors and output status.

SIGNAL MONITOR

Dry Contact Input:	<ul style="list-style-type: none"> • Open circuit voltage: 10.2 V DC • Short-circuit current: 25 mA. • Fuse protected.
Voltage Input:	<ul style="list-style-type: none"> • Level Limits: from 5 to 250 V AC/DC • Input Impedance: 19 kΩ • Fuse protected.

GENERAL

Control:	Manual
Voltage supply:	230 V $\pm 10\%$, 50-60 Hz
Operation Temperature:	0 - 55° C
Case:	The containers are made with extremely robust enamelled steel and are provided with caster wheels and proper handles. Both units have a transport cover.
Weight:	1 x 45 kg / 99 lb and 1 x 120 kg / 264 lb

EUROSMC, S.A.

Polígono Industrial P-29, Calle Buril, 69.
28400 Collado-Villalba. Madrid (Spain).
Tels: 34 - 91 - 849 89 80*. Fax: 34 - 91 - 851 25 53
www.eurosmc.com • e-mail: sales@eurosmc.com

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