



ABN 43 064 478 842

➤ 231 osborne avenue clayton south, vic 3169
PO box 1548, clayton south, vic 3169
t 03 9265 7400 f 03 9558 0875
freecall 1800 680 680
www.tmgtestequipment.com.au

Test & Measurement

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Complimentary Reference Material

This PDF has been made available as a complimentary service for you to assist in evaluating this model for your testing requirements.

TMG offers a wide range of test equipment solutions, from renting short to long term, buying refurbished and purchasing new. Financing options, such as Financial Rental, and Leasing are also available on application.

TMG will assist if you are unsure whether this model will suit your requirements.

Call TMG if you need to organise repair and/or calibrate your unit.

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SECONDARY CURRENT INJECTOR

Model: SC-10



FEATURES:

- Test outputs available: 0 to 100 amperes a.c., 0 to 240 volts a.c., 0 to 240 volts d.c.
- Auxiliary output 0 to 120 volts a.c. for directional relays.
- Panel with clear easy to follow legend.
- Built in Timer system for testing IDMT relays or circuit breakers.
- Overload protected against current and thermal overload.
- Digital readouts of current, voltage and time.

SECONDARY CURRENT INJECTOR

APPLICATIONS:

Protective devices such as relays, overload coils and circuit breakers should be checked on installation and at regular intervals when in service. Routine current injection tests will quickly detect faulty or incorrectly adjusted device. The 'UDEY SC-10' is suitable for all these applications including protective relays, including IDMT relays. Besides checking the correct functioning of the protective device, it is usually necessary to measure the operating time. 'UDEY SC-10' has a built in timer to measure the operating time.

DESCRIPTION:

The 'UDEY SC-10' secondary current injector is a tester with rating of 100 Amp -1.8 kVA with built in timer. This will test instantaneous relays, IDMT relays, directional relays, moulded circuit breakers and meters. Current or voltage at each of the four main sets of a.c. terminals is continuously variable.

The outputs are:

- ✎ 0 to 100 A a.c. or 0 to 24 V a.c.
- ✎ 0 to 30 A a.c. or 0 to 80 V a.c.
- ✎ 0 to 10 A a.c. or 0 to 240 V a.c.

Output current flowing thru the common terminal is measured to a resolution of 10 mA. Also a variable output of 0 to 240 V d.c. and an independently controlled output of 0 to 120 V a.c. is available to allow testing of directional relays. Two digital displays are used. A 3½ digit display to show the output current or voltage (by means of meter range selector switch). The other is a four digit display to show readings of the timer. A 'SET/TEST' switch is provided so that the appropriate current can be set up before the test is actually carried out, and to avoid damage to relay coils by disconnecting the test current after the device has operated. The timer has custom operating modes: 'NO', 'NC', 'CUR' 'RUNBACK' and 'MANUAL'. These enable the function of a protective relay to be fully tested. Separate terminals are provided for connecting to the tripping contacts of the relay. The timer has 'RESET' pushbutton and two manual pushbuttons.

PROTECTION:

Thermomagnetic contact operates when main output control current exceeds 7.5A.

Thermal cutout when loading current transformer temperature exceeds 80 deg. C

SPECIFICATION:

SUPPLY VOLTAGE	240± 10% Volts, 50 / 60 Hz, a.c. single phase..
CURRENT OUTPUT	0 to 100 A at 0 to 24 V a.c. 0 to 30 A at 0 to 80 V a.c. 0 to 10 A at 0 to 240 V a.c. Each output has a independent terminal referred to one common terminal.
RATING	100% Current: 1 min ON / 15 min OFF. 50% Current: 5 min ON / 15 min OFF. 25% Current: Continuous.
VOLTAGE OUTPUT	0 to 240 V d.c., 1 A. Non floating output. 0 to 120 V a.c., 0.50 A. Output is fully floating and under normal loading is in phase with the current to within 10 deg. Both the outputs have a independent pair of terminals.
METERING	3 ½ Digit 12mm LED. Current: 10-100 Amp ac. Voltage: 24,80,240,120 Vac and 240 Vdc. Accuracy: ± 1.5% ± 3 digits.
TIMER	4 Digit, 12 mm LED, crystal (4MHz). Multi-range : a) .9999 seconds b) 9.999 seconds c) 99.99 seconds d) 999.9 seconds
PROTECION	Input: MCB and fuse. Output: Fuse. Thermal switch after 80degC. Thermomagnetic contact activates when main output control > 7.5A
CONSTRUCTION	Rugged metal case, powder coated with cover and carrying handles.
DIMENSIONS	W x D x H: 530 x 350 x 370mm approx.
WEIGHT	45 kgs. approx.
STANDARD ACCESSORIES	(a) Operating Manual. (b) Mains cord 3 Core 2 meter long. (c) Flexible current test lead 100A, 1pair, 3 meter long. (d) Flexible voltage test lead pair 3 meter long.
OPTIONAL ACCESSORIES	Filter unit: FL8: 0 to 1A, 1 to 2A, 2 to 5A, 5 to 10A, 10 to 30A Outputs are relative to a Common terminal

Due to the company's continuous research program, the information herein may change at anytime without previous notification.



UDEYRAJ ELECTRICALS PRIVATE LIMITED

212-A, Hind Saurashtra Indl. Est., Marol Naka, Mumbai-400 059. INDIA

Tel: + 91 22 6691 6181 Fax: + 91 22 6694 2787

E-mail: udeyraj@vsnl.com Website: www.udeyraj.com