



# Datasheet



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# 750ADM 750ADM-H

# Current Injection Systems



## Features

- Primary injection up to 750A
- 2.8V output (750ADM)\*  
4V output (750ADM-H)\*
- 16V 40A output for secondary injection
- True RMS digital metering
- Memory ammeter
- Multi-function timing system
- Large back-lit liquid crystal display
- Thermal and over-current protection
- Automatic switch-off at end of test
- Compact and portable
- Automatic mains voltage selection\*

\*See specifications overleaf

T&R Test Equipment is a market leader in the field of current injection equipment. The range includes secondary injection units with 100A output capability up to 6000A primary injection systems. All have true RMS metering, a flexible timing system, and an easy to understand user interface.

The 750ADM and 750ADM-H are compact, rugged primary current injection systems with a 750A output capability. The 750ADM has a maximum no load output voltage of 3.5V and the 750ADM-H has a maximum voltage of 5V. The units are ideally suited to all low power primary injection tasks requiring up to 750A for short periods.

Unit type	Max. power rating	Max. current
750ADM	2kVA	750A
750ADM-H	3kVA	750A
PCU1/E+LU3000	7kVA	3000A
PCU2/E+LU6000	20kVA	6000A

Where higher currents and powers are required for primary injection, 7kVA and 20kVA primary injection systems are available. The PCU1/E and PCU2/E systems have separate control and loading units, allowing a wide range of load conditions to be covered with different loading units.



PCU1/E, LU500 and LU3000

The units have two outputs, allowing injection of currents as low as a few hundred milliamps and up to 750A. Voltages up to 16V are available on the 40A output, allowing higher impedance trips to be tested. Four true RMS metering ranges are provided, allowing the full scale of the meter and trip level to be set independently of the selected output. Industry standard connectors are used on all inputs and outputs for convenience, reliability and safety.

The 750ADM and 750ADM-H are comprehensively protected by electronic overcurrent and thermal trips.

The timing system is very flexible without compromising ease of use, allowing trip times, reset times and reclose times to be quickly measured to a high degree of accuracy. Two contact inputs are provided, each of which may be triggered by a volt-free contact or a dc voltage. The contact inputs auto-sense for normally open or normally closed contacts.

The 750ADM can be used to test many devices including:

- Circuit breakers
- Primary injection of over-current relays
- Auto-reclosers
- MCB's

The unit can also be used for current transformer ratio testing and as a dual channel stand-alone timing system.



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## 750ADM/750ADM-H Specification

### Main Output

The main output on the unit has two taps, allowing the selection of output voltages up to 16V and output currents up to 750A. The unit operates at slightly reduced ratings when operating from a 115V supply.

	750ADM		750ADM-H		
	115V	230V	115V	230V	
750A Output	Open circuit voltage	2.5V	3.5V	3.5V	5.0V
	Voltage at 500A	1.9V	2.8V	2.8V	4V
	Continuous current	125A	125A	125A	125A
	5 min on	250A	250A	250A	250A
	1 min on	500A	500A	440A	500A
40A Output	Max current	750A	750A	500A	750A
	Max current on time	10s	30s	10s	20s
	Open circuit voltage	10V	16V	10V	16V
	Full load voltage	7.5V	10V	7.5V	10V
	Continuous current	10A	10A	10A	10A
	1 min on	40A	40A	40A	40A

### Metering

The output is metered by a digital true RMS system with a memory ammeter - whenever the output is switched off, the current reading is held on the display.

Range	Resolution	Trip current	Accuracy
20.00A	0.01A	21A	±0.5%rdg+5d
50.00A	0.01A	53A	±0.5%rdg+5d
200.0A	0.1A	210A	±0.5%rdg+5d
750A	1A	788A	±0.5%rdg+2d

A current trip is automatically set to 105% of full scale of the selected metering range to protect the device under test.

### Timing System

Range	0-999.999s
Resolution	1ms
Accuracy	±0.01%rdg+2d (all modes except current operated) ±0.01%rdg+4d (current operated mode)

The contact circuits have an open circuit voltage of 24Vdc and a short circuit current of 20mA. Each contact circuit will auto-select for normally open or normally closed contacts. A DC voltage of 24-240Vdc may also be used to trigger either timer channel.

The following functions are provided:

Mode	Timer Start	Timer Stop
Off	Timer inactive	Timer inactive
Internal start	Press 'ON'	Contact 1
Single contact	Contact 1	Contact 1
Dual contact	Contact 1	Contact 2
Current operated	Current > 20% of range	Current < 20% of range

The output is automatically switched off at the end of the test to safeguard the relay under test.

### RS232

An RS232 port is provided to allow connection to a PC or a printer. ADMlog software is available as an optional extra to log results from the 750ADM and transfer them to a spreadsheet.

### T&R Link

The T&R Link allows a T&R DVS3 mk2 voltage source to phase lock to the 750ADM current.

### Supply Requirements

	750ADM	750ADM-H
115V±10% 50/60Hz 1ph	2000VA max	1900VA max
230V±10% 50/60Hz 1ph	3000VA max	3900VA max

The correct voltage range is automatically selected by the unit.

### Temperature Range

Storage	-20°C to 60°C	Operating	0°C to 45°C
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### Dimensions

380mm x 314mm x 221mm

### Weight

21.5kg (750ADM) 23.5kg (750ADM-H)

### Accessories

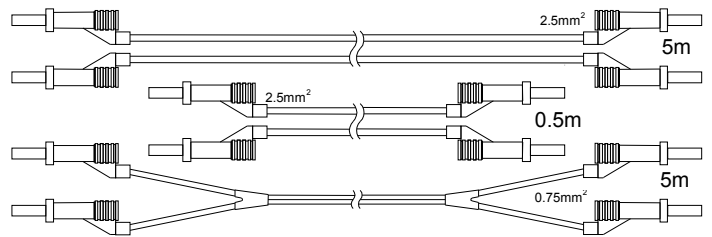
Operating manual, mains lead, spare fuse set and carrying strap.

### Optional 750ADM-AL Lead Set specifications

A range of output leads are available to complement the 750ADM. The standard 750ADM-AL lead set is 3m long, recommended for use with a 230V Supply. A 1.5m lead set is also available, and is recommended when operating from a 115V supply. The leads consist of double insulated 95mm<sup>2</sup> welding cable terminated in Dinse high current connectors at the 750ADM end and high

current welding clamps at the load end.

Low current timer leads are also included with the lead set:



The 3m lead set weighs 9.8kg including high current leads, timer leads and case.

### Protection and Safety

The unit is protected by electronic over current and thermal trips on the outputs, and circuit breakers on the input and power circuit. An earth terminal is provided for connection to a local earth. The unit is designed to comply with BSEN61010, and is CE marked.

*Note: Due to the company's continuous research programme, the information above may change at any time without prior notification. Please check that you have the most recent data on the product.*

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## LOCATIONS

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