



9790 100A Current Transformer Option (For Time 5025 - 5051 - 5077)

Time Electronics
Calibration, Test & Measurement



The 9790 is a heavy duty current transformer mounted in a steel case. It is suitable for use with Time Electronics 5025 and 5051 Multifunction Calibrators and the 5077 Power Calibrator. It extends the AC current capability to 100A rms. The maximum compliance voltage is approximately 0.3V at 100A. However in order to achieve this, very low resistance connecting leads must be used. Connection is via front mounted terminals.

Specification

Current:	100A rms maximum
VA Rating:	30VA Maximum
Compliance	0.3V rms at 100A increasing to 0.5V rms at 20A
Operating Frequency:	50/60Hz only
Ratio Error:*	< 0.1% from 5% - 120% of full load current (100A)
Phase Error:	< 0.05degree from 5% - 120% of full load current (100A)
Classification:	Conforms to BS EN6004-1 class 0.1 at 50Hz
Dimensions:	31.7W x 27.5H x 17.7D cm Weight: 9.2 Kg

*The final accuracy should be calculated as the Calibrator specification plus the 9790 Ratio Error.

Instructions for use

Connect the 20A primary input terminals to the calibrator using suitable leads. Leads and connectors must be of low resistance and suitable for 20A, recommended minimum wire size 4mm².

Connect the 100A secondary output terminals to the load using suitable leads. Leads and connectors must be of very low resistance and suitable for 100A, recommended wire size 16mm² max outer Ø: 9mm.. Keep leads as short as possible.

The total impedance of the secondary circuit at 50/60 Hz must be less than 3 milli-ohm for operation at 100A.

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