

3000A FLEX CTs



The DENT Instruments 3000A Flexible Current Transformer is composed of a flexible sensor and an electronic module. The flexible sensor permits measurements on conductors where standard clamp-on current transformers could not be used. Specifically, it can be installed in tight spaces, or around breaker panels, cable bundles, wide or large bus bars and irregular shapes.

Unlike standard current transformers, this flexible CT does not use magnetic cores. The transformation principle is based on an air core. It presents virtually no load to the system under test, has a low phase shift and excellent frequency response. Additionally, it cannot be damaged by overloads.

The DENT 3000A Flexible Current Transformer is insensitive to DC current and measures only the AC component of the measured signal.



KEY SPECIFICATIONS

Window Size	26 cm (10")
Current Range	20 - 4000A AC
Output	1.11 mV/A (333mV @ 300A) .111mV/A (333mV @ 3000A)
Accuracy	1% reading + 200 mA
Phase Shift	< 1° @ 50/60 Hz

ELECTRICAL

Wire Polarity	Red = Hi, positive (+) Black = Low, negative (-)
Frequency Range	40 Hz to 5 kHz

MECHANICAL

Material	Epoxy encapsulated housing
Leads	3 m (10 ft) shielded cable
Working Temperature	-10° to +55°C (14° to 131°F)
Storage Temperature	-20° to +70°C (-4° to 158°F)
Battery Life	~2,000 hours (Typical for continuous operation. Individual results may vary.)

SAFETY

Working Voltage	Maximum 600 Vrms
Dielectric Strength	5000 V around the case 600 V rated leads
Safety	CE Mark, Double Insulation



PART NUMBERS

CT-FLN-3000-U	Crimp ferrules on leads
CT-FLN-3000-B	With Banana Plugs (for use with Weather-tight PRO-series Instruments)

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