

CT SPECIFICATIONS

FLEXIBLE CURRENT TRANSFORMER

3000A

91 CM (36") SENSOR LENGTH



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.

ELECTRICAL SPECIFICATIONS

Nominal Rating

300/3000A

Useful Current Range

10 to 4000A AC

Output Signal

1.11 mV/A (333mV @ 300A)

.111mV/A (333mV @ 3000A)

Accuracy

1% reading + 200 mA

Phase Shift

< 1° @ 50/60 Hz

Frequency Range

40 Hz to 5 kHz

MECHANICAL SPECIFICATIONS

Dimensions

4.0 x 6.4 x 11.4 cm (1.56 x 2.5 x 4.5")

Sensor: 90 cm long (35")

Polarity

Positive terminal marked "I"

Output Lead

3 m (10 ft) shielded cable

Operating Temperature

-10° to +55°C (14° to 131°F)

OTHER FEATURES

Cable Length

2.0 m (6.5 ft) sensor to case

Weight

370 g (13.8 oz)

Dielectric Strength

5000 V around the case

600 V rated leads

Storage Temperature

-20° to +70°C (-4° to 158°F)

Case Protection

Epoxy encapsulated housing



SAFETY SPECIFICATIONS

CE Mark

Double Insulation

Working Voltage

Maximum 600 Vrms

ORDERING PART NUMBER

CT-FLN-3000-U (unterminated)

CT-FLN-3000-B (banana plugs)