

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)