

AC CURRENT TRANSDUCER Model Flex 3000L

300/3000A Dual Range-Long Life

Specification Sheet

Ordering Part Number: CT-FL-N-3000-U Unterminated
CT-FL-N-3000-B Banana Plug

ELECTRICAL

Current Range: 5 to 300A AC &
50 to 3000A AC

Output Signal: 1.11 mV/A (333mV @ 300A) &
0.111mV/A (333mV @ 3000A)

Accuracy*: 1% Reading + 200 mA

Phase Shift: <1° @ 50/60 Hz

Frequency Range: 40 to 5 kHz

Residual Current:
200 mA rms when I measured = 0

LED Indicators:
1 Red single flash when "Low Bat"
1 Green single flash when "Low" range selected
1 Green single flash when "High" range selected

Controls:
One button used to turn on and select range

Influence of Adjacent Conductor: 0.2% typical
2% max.

Influence of Conductor Position In Jaw:
0.5% typical, 4% max.

Influence of Frequency:
Reference accuracy + 2% between
40 and 5000 Hz

Influence of Temperature:
Sensor: <0.5% of reading / 10°C, -10 to +100 °C
Module: : <0.5% of reading / 10°C, -10 to +55 °C

Power: One 9V Lithium Battery
4000 hr typical, 8000 hr max.

MECHANICAL

Operating Temperature:
14° to 131°F (-10° to +55°C)

Storage temperature:
-4° to 158°F (-20° to +70°C)

Operating Relative Humidity:
85 ±5% RH non-condensing, 10-30°C
45 ±5% RH non-condensing, 40-50°C

Maximum Cable Diameter:
One Ø 11.5" (29 cm)

Enclosure: IP 65 (NEMA 4 rated)

Drop Test:
Test per IEC 1010: 1.0 m drop on
38 mm of Oak on concrete

Dimensions:
1 9/16 x 2 1/2 x 4 1/2" (40 x 63 x 114 mm)
Sensor: 36" long (90 cm)

Weight:
13 Oz. (370 g)

Module:
UL 94 V2

Cable Assembly:
UL 94 V0

Cable Length:
6.5 ft (2 M) sensor to case

Altitude:
Non-operating 0 to 39,000' (12 km)
Operating: 0 to 6,600' (2000 m)

Polarity: Positive terminal marked 1

Output Lead: 10 ft. (3 m) Shielded cable

SAFETY

Working Voltage:
600 Vrms Max. (Category III)
Pollution Class 2

Common mode voltage:
30V rms Max.

Electrical:
Double insulation or reinforced
insulation; conforms to IEC
1010-2-32

Manuals:
None

Shipping:
White box

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CT-FL-N-3000-B banana plugs

*Accuracy Reference conditions:
23°C ± 3°C, 20-70% RH, 50/60
Hz, No external AC magnetic field,
DC magnetic field <40 A/m (earth
field), Supply: 8V ±10%, Load
impedance = 1MΩ

DENT INSTRUMENTS
64 N.W. Franklin Avenue
Bend, Oregon 97701
(1) 541.388. 4774
www.DentInstruments.com