



# Rev. Grade High Accuracy Split-Core Current Transformers

Specification

N2-AcuCT Series - 9/6/23

## Overview

The Revenue Grade High Accuracy Split-Core Current Transformers are designed to convert an AC operating current into a low voltage AC millivolt signal for use with microprocessor-based circuits that require maximum accuracy and precision. These compact and light-weight split-core current transformers are designed for installation on branch circuits within the electrical panel. The current transformer features a sturdy latch that locks the split-core CT in place using a press-open mechanism for quick installations without disconnecting cables. Split-Core CTs come standard unterminated stripped and tinned lead wires for easy connection to any of the Single or 3 Phase power meter.

For best accuracy, CTs should be selected based upon the size of the conductors being monitored by selecting the proper window size and referencing the expected maximum and minimum currents for the targeted application. The acceptable Measurement Current Range is referenced in the ordering grid table.



**Applications:** Tennant Billing, Energy and Demand Metering, Load Surveys, LEED/Green Projects, ROI / Project Justification

The Split Core High Accuracy mV Output Current Transformers are covered by a five (5) Year Limited Warranty.

## Part Numbers

N2-AcuCT-S77-100-333	N2-AcuCT-S77-200-333	N2-AcuCT-075R-50-333
N2-AcuCT-075R-100-333	N2-AcuCT-075R-150-333	N2-AcuCT-100R-100-333
N2-AcuCT-100R-200-333	N2-AcuCT-100R-250-333	N2-AcuCT-125R-300-333
N2-AcuCT-125R-100-333	N2-AcuCT-125R-200-333	N2-AcuCT-125R-400-333
N2-AcuCT-200R-400-333	N2-AcuCT-200R-600-333	N2-AcuCT-200R-800-333
N2-AcuCT-200R-1000-333	N2-AcuCT-3135R-1000-333	N2-AcuCT-4161R-2000-333
N2-AcuCT-5170R-4000-333		

## Specifications

<b>Monitored Current Type:</b>	AC Current
<b>Maximum Working Voltage:</b>	600 VAC, Category III
<b>Core Style:</b>	Hinged Split-Core
<b>Rated Output:</b>	333mV @ 50/100/150/200/250/300/400/600/800/1000/2000/4000 Amps (see ordering grid)
<b>Operating Frequency Range:</b>	50/60 Hz
<b>Withstand Voltage:</b>	5,000VAC
<b>Sensor Amperage Range:</b>	See Ordering Grid
<b>Accuracy1:</b>	0.5s Class IEC 60044-1
<b>Operating Temperature Range:</b>	5 to 149oF (-15 to 60oC)
<b>Storage Temperature Range:</b>	-40 to 185oF (-40 to 85oC)
<b>Operating / Storage Humidity Range:</b>	5 to 95%, non-condensing

Specifications subject to change without notice.





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## Type Selection

Part #	A	B	C	D	E
N2-AcuCT-075R	2.28" (58 mm)	2.28" (58 mm)	0.87" (22 mm)	0.77" (19.5 mm)	0.77" (19.5 mm)
N2-AcuCT-100R	2.56" (65 mm)	2.56" (65 mm)	0.87" (22 mm)	0.98" (25 mm)	0.98" (25 mm)
N2-AcuCT-0125R	3.23" (82 mm)	3.23" (82 mm)	0.87" (22 mm)	1.26" (32 mm)	1.26" (32 mm)
N2-AcuCT-200R	4.37" (111 mm)	4.37" (111 mm)	1.26" (32 mm)	2.01" (51 mm)	2.01" (51 mm)
N2-AcuCT-3135R	5.67" (144 mm)	6.06" (154 mm)	1.26" (32 mm)	3.15" (80 mm)	3.54" (90 mm)
N2-AcuCT-4161R	7.28" (185 mm)	9.25" (235 mm)	1.77" (45 mm)	4.13" (105 mm)	6.10" (155 mm)
N2-AcuCT-5170R	8.27" (210 mm)	10.24" (260 mm)	1.77" (45 mm)	5.12" (130 mm)	7.09" (180 mm)

## Standard Ordering

Part #	Rated Current	Window Size	Output Signal (At Rated Current)
N2-AcuCT-075R-50-333	50A	0.75" (19.05 mm)	333 mV @ 50A
N2-AcuCT-075R-100-333	100A	0.75" (19.05 mm)	333 mV @ 100A
N2-AcuCT-075R-150-333	150A	0.75" (19.05 mm)	333 mV @ 150A
N2-AcuCT-100R-100-333	100A	0.75" (19.70 mm)	333 mV @ 100A
N2-AcuCT-100R-200-333	200A	1.00" (25.40 mm)	333 mV @ 200A
N2-AcuCT-100R-250-333	250A	1.00" (25.40 mm)	333 mV @ 250A
N2-AcuCT-125R-100-333	100A	1.25" (31.75 mm)	333 mV @ 100A
N2-AcuCT-125R-200-333	200A	1.25" (31.75 mm)	333 mV @ 200A
N2-AcuCT-125R-300-333	300A	1.25" (31.75 mm)	333 mV @ 300A
N2-AcuCT-125R-400-333	400A	1.25" (31.75 mm)	333 mV @ 400A
N2-AcuCT-200R-400-333	400A	2.00" (50.80 mm)	333 mV @ 400A
N2-AcuCT-200R-600-333	600A	2.00" (50.80 mm)	333 mV @ 600A
N2-AcuCT-200R-800-333	800A	2.00" (50.80 mm)	333 mV @ 800A
N2-AcuCT-200R-1000-333	1000A	2.00" (50.80 mm)	333 mV @ 1000A
N2-AcuCT-3135R-1000-333	1000A	3.1" (78.74mm) X 3.5" (88.90mm)	333 mV @ 1000A
N2-AcuCT-4161R-2000-333	2000A	4.1" (104.14mm) X 6.1" (154.94mm)	333 mV @ 2000A
N2-AcuCT-5170R-4000-333	4000A	5.1" (129.54mm) X 7.0" (177.80mm)	333 mV @ 4000A



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## Appendix – Symbols Key

 <b>Warning</b>	Potential for death, serious injury, or permanent damage to a system.
 <b>Caution</b>	Potential for injury, damage to a system, or system failure.
 <b>Tip</b>	Useful information not related to injury or system damage.

### W.E.E.E. DIRECTIVE

At the end of their useful life the packaging and product should be disposed of via a suitable recycling center. Do not dispose of with household waste. Do not burn.