DC Current Transducers

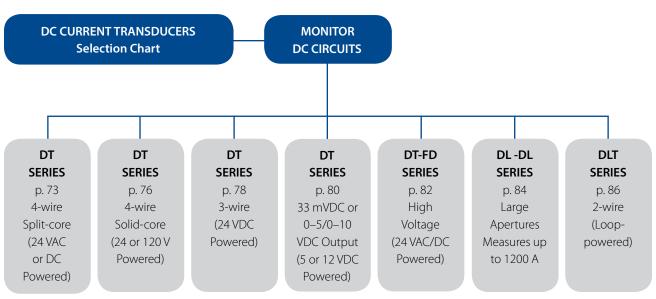
Current Transducers are designed to provide an analog current reading for monitoring, data logging and panel meter applications. NK Technologies' current transducers offer a choice of 0-5 VDC, 0-10 VDC or 4-20 mA outputs common to PLC and energy management system controllers for monitoring of DC motor conditions, solar panel installations, welding processes and transportation applications.

Features:

- Jumper-selectable ranges
- Solid-core, split-core and large aperture models

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0	DT SERIES, 4-WIRE Solid-Core DC Current Transducers	page 76
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0	DLT SERIES, 2-WIRE Looped Power DC Current Transducers	page 86

DT SERIES, 4-WIRE Split-Core







DT SERIES, 4-WIRE

DC Current Transducers Split-core Models

DT Series DC Current Transducers combine a Hall effect sensor and signal conditioner into a single package for use in DC current applications up to 400 A. The DT Series DC Current Transducers unipolar and bipolar models have jumper-selectable current input ranges and industry standard 0–20 mA, 4–20 mA, 0–5 VDC or 0–10 VDC outputs. Bidirectional output models provide a single range. These transducers are available in a split-core case.

DC Current Transducer Applications

Battery Banks

- · Monitor load current.
- Monitor charging current.
- · Verify operation.

Transportation

• Measure traction power or auxiliary loads.

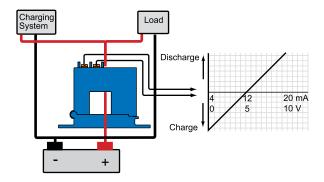
Welding Processes

- · Measure the current used while welding.
- Log processing time and number of operations.

Photovoltaic Panels

- · Monitor panel or string current output.
- · Monitor combiner box output.

Battery Charging System - Bipolar Output



DC Current Transducer Features

Single Range or Three Jumper-selectable Ranges

- · Reduces set-up time.
- · Reduces inventory.
- Eliminates zero and span pots.

Isolation

- Output is magnetically isolated from the input for safety.
- Eliminates insertion loss (voltage drop).

Internal Power Regulation

- · Works well, even with unregulated power.
- Cuts installation cost.

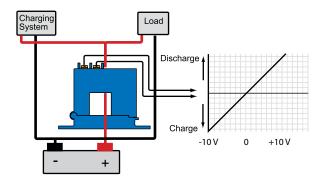
Split-core Design/Built-in Mounting Brackets

• Makes installation a snap.

UL/cUL and CE Approved

· Accepted worldwide.

Battery Charging System - Bidirectional Output



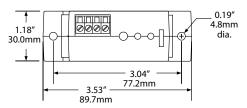
For additional Application Examples, go to www.nktechnologies.com/applications

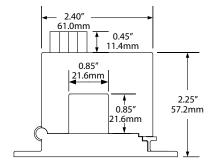




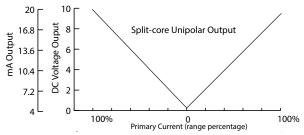


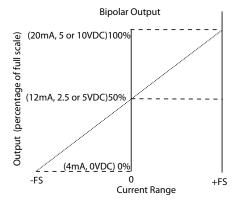
SP Case

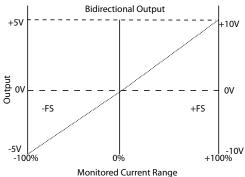




DC Current Transducer Output







DC Current Transducer Specifications

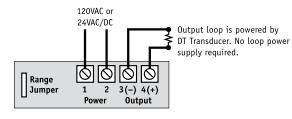




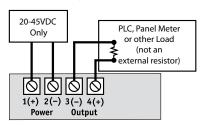
Power Supply	• 24 VAC/DC (20–45 VDC, 22–38 VAC)		
Power Consumption	2 VA		
Output Signal	• 0–20 mA, 4–20 mA, 0–5 VDC, 0–10 VDC • ±10 VDC (Bidirectional models only)		
Output Limit	• 0–20 mA, 4–20 mA: 23 mA • 0–5 VDC: 5.75 VDC • 0–10 VDC: 11.5 VDC		
Output Impedence	 0-20 mA, 4-20 mA: 500 max. 0-5 VDC: 25 KΩ min. 0-10 VDC: 50 KΩ min. 		
Accuracy	• 2.0% FS		
Repeatability	1.0% FS		
Response Time (90% step change)	• 100 ms average (solid-core or split-core)		
Frequency Range	DC		
Isolation Voltage	UL listed to 1270 VAC, tested to 3 KV		
Input Range	• 0–200 A max. (solid-core) • 0–50 A min., 0–400 A max. (split-core)		
Case	UL94 V-0 Flammability Rated		
Environmental	-4 to 122°F (-20 to 50°C) 0–95% RH, non-condensing		
Listings	UL/cUL, CE		

DC Current Transducer Connections

DT Series Unipolar and Bipolar Output Models



DT Series Bidirectional Output Models



Notes:

Deadfront captive screw terminals. 12-22 AWG solid or stranded. Observe polarity.





DC Current Transducer Ordering Information

DT Series Unipolar and Bipolar Output Models

Sample Model Number: DT2-420-24U-U-SP

DC current transducer, 0–100/150/200 A range, 4–20 mA output, 24 VAC/DC powered, unipolar polarity, split-core case. (DIN rail adapters are included)

(1)	(2)	(3)	(4)	(5)
DT _		- 2 4 U		S P

(1) Full Scale Range

1	50, 75, 100 A
2	100, 150, 200 A
3	150, 225, 300 A
4	200, 300, 400 A

(2) Output Signal

020	0–20 mA
420	4–20 mA
005	0–5 VDC
010	10 VDC

(3) Power Supply

24U	+24 VAC/DC
210	1211/10/00

(4) Output Polarity

U	Unipolar (output with current in either direction)
ВР	Bipolar

(5) Case Style

DT Series Bidirectional Output Models

Sample Model Number: DT2-010-24D-BD-SP DC current transducer, 0–200 A range, ±10 VDC output signal, 24 VDC powered, split-core case. (DIN rail adapters are included)

	(1)			(2)				(3)			(4	1)		(5	5)
DT		-	0	1	0	-	2	4	D	_	В	D	-	S	Р

(1) Full Scale Range

1	100 A
2	200 A
3	300 A
4	400 A

(2) Output Signal

010	±10 VDC	

(3) Power Supply

(4) Output Polarity

(5) Case Style

CD	C 1:4
SP	l Split-core





DT SERIES, 4-WIRE

DC Current Transducers Solid-core Models

DT Solid-core Series DC Current Transducers combine a Hall effect sensor and signal conditioner into a single package for use in DC current applications up to 200 A. The DT Series DC Current Transducers unipolar and bipolar models have jumper-selectable current input ranges and industry standard 0-20 mA, 4-20 mA, 0-5 VDC or 0-10 VDC outputs. Solid-core models are offered with ranges as low as 0-5 amps, and up to 0-200 amps.

DC Current Transducer Applications

Battery Banks

- · Monitor load current.
- · Monitor charging current.
- · Verify operation.

Transportation

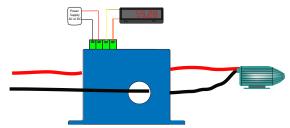
• Measure traction power or auxiliary loads.

Welding Processes

- · Measure the current used while welding.
- Log processing time and number of operations.

Photovoltaic Panels

- Monitor panel or string current output.
- · Monitor combiner box output.



Use a DT sensor over one lead to a DC motor to measure the current used. Over normal readings mean a jam or a bearing failure, and under normal current means a belt or coupling may have broken. The output can also be used to measure time of use to help with maintenance scheduling.



DC Current Transducer Features

Single Range or Three Jumper-selectable Ranges

- · Reduces set-up time.
- · Reduces inventory.
- · Eliminates zero and span pots.

- Output is magnetically isolated from the input for safety.
- Eliminates insertion loss (voltage drop).

Internal Power Regulation

- · Works well, even with unregulated power.
- Cuts installation cost.

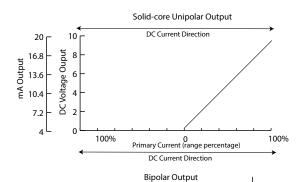
Split-core Design/Built-in Mounting Brackets

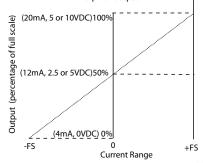
Makes installation a snap.

UL/cUL and CE Approved

· Accepted worldwide.

DC Current Transducer Output

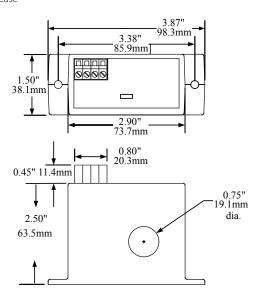






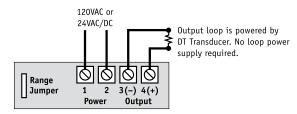


FL Case



DC Current Transducer Connections

DT Series Unipolar and Bipolar Output Models



Deadfront captive screw terminals. 12-22 AWG solid or stranded. Observe polarity.

DC Current Transducer Specifications





	c us
Power Supply	• 120 VAC (108–132 V) solid-core only • 24 VAC/DC (22–26 V) solid-core only
Power Consumption	2 VA
Output Signal	• 0–20 mA, 4–20 mA, 0–5 VDC, 0–10 VDC • ±10 VDC (Bidirectional models only)
Output Limit	• 0–20 mA, 4–20 mA: 23 mA • 0–5 VDC: 5.75 VDC • 0–10 VDC: 11.5 VDC
Output Impedence	• 0–20 mA, 4–20 mA: 500 max. • 0 – 5 VDC: 25 KΩ min. • 0–10 VDC: 50 KΩ min.
Accuracy	1.0% FS
Repeatability	1.0% FS
Response Time	100 ms average
Frequency Range	DC
Isolation Voltage	UL listed to 1270 VAC, tested to 3 KV
Input Range	0–200 A max
Case	UL94 V-0 Flammability Rated
Environmental	-4 to 122°F (-20 to 50°C) 0–95% RH, non-condensing
Listings	UL/cUL, CE

DC Current Transducer Ordering Information

Sample Model Number: DT2-420-24U-U-FL

DC current transducer, 0–100/150/200 A range, 4–20 mA output, 24 VAC/DC powered, unipolar polarity, solid-core case. (DIN rail adapters are included)



(1) Full Scale Range

0	5, 10, 20 A
1	50, 75, 100 A
2	100, 150, 200 A

(2) Output Signal

020	0–20 mA
420	4–20 mA
005	0–5 VDC
010	10 VDC

(3) Power Supply

24U	+24 VAC/DC
120	120 VAC

(4) Output Polarity

U	Unipolar (output with current in one direction only)	
BP	Bipolar	

(5) Case Style

* /	,
FL	Solid-core





DT SERIES, 3-WIRE

DC Current Transducers

DT Series DC Current Transducers provide a low cost way of measuring DC current in a small and easy-to-install case. The series is stable at a wide range of temperatures. The single range design and the use of a common for the power supply and output signal provide a price competitive option in an international market. Similar in concept to the DLT current output sensors, this design produces a choice of 0-5 or 0-10 VDC to interface with controllers or data acquisition systems lacking the current signal capacity.



DC Current Transducer Applications

Photovoltaic Panel Monitoring

· Accurate and reliable indication of how much power is produced by a single panel or a string of panels.

- · Detect overloads and jams.
- Detect undercurrent conditions from coupling slip or breakage.

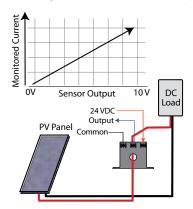
DC Motor Protection

· Detect imminent bearing failures.

Wind Driven Generators

• Measure and monitor power production from alternative sources.

Monitoring a Photovoltaic Panel Power Output



 For additional Application Examples, go to www.nktechnologies.com/applications

Test & Evaluation Units for OEMs Free program expedites evaluation process. See page 3 for details.

DC Current Transducer Features

Industry Standard Outputs

- 0-5 or 0-10 VDC proportional to the DC current.
- Compatible with most automation systems.

24 VDC Powered

• Power supply and output share common.

No Span or Zero Adjustments Needed

- · Reduces field calibration errors.
- Factory calibrated without potentiometers.

Solid-core Case

• Compact size requiring very little panel space.

Built-in Mounting Feet

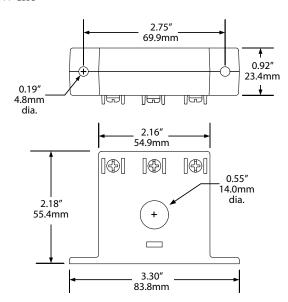
• Simple, two-screw panel mounting or attach with DIN rail brackets (included).*

Designed for UL/cUL and CE Approval

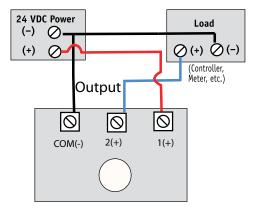
Accepted worldwide.



FF Case



DC Current Transducer Connections



DC Current Transducer Specifications

Power Supply	24 VDC (19–30 V)
Power Consumption	<2 VA
Output Signal	0–5 or 0–10 VDC
Output Impedence	10 KΩ min.
Response Time	500 ms
Range	• 0–50 A • 0–100 A
Frequency Range	DC
Isolation Voltage	UL listed to 1270 VAC, tested to 5 KV
Case	UL94 V-0 Flammability Rated
Environmental	-4 to 122°F (-20 to 50°C) 0–95% RH, non-condensing
Listings	Designed for UL/cUL and CE approval

DC Current Transducer Ordering Information

Sample Model Number: DTB-010-24D-U-FF DC current transducer, 0–50 A, 0–10 VDC output, 24 VDC powered, unipolar, solid-core case. (DIN rail adapters are included)



(1) Range

В	0–50 ADC
С	0–100 ADC

(2) Output Type

005	0–5 VDC
010	0-10 VDC

(3) Power Supply

(4) Output Design

U Unipolar (output with current in one direction)

(5) Case Style

FF
FF





DT SERIES, 5 & 12 VDC POWERED

DC Current Transducers

The DT Series of Temperature Compensated DC Current Transducers is ideal for energy management system inputs where the controller is designed to accept 333 mV signals, commonly found in power monitoring applications. Other output options available are a 0–5 VDC signal used in building energy management systems or a 0–10 VDC signal seen more often in industrial controllers. Additionally, this series features a patented method that improves the sensor accuracy as the ambient temperature changes. The sensor output is automatically adjusted as the temperature increases or decreases, eliminating one of the biggest issues with Hall effect based products.



Patented temperature compensation design US Patent 9618541

DC Current Transducer Applications

Photovoltaic Panel Output Measurement

• The sensor output rises and falls as the panel produces more or less power.

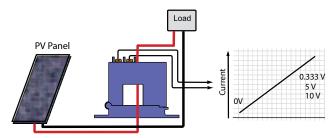
DC Motors

- · Detect jams and overloads.
- Provide early notification of impending bearing failure.

Electrical Heaters

• Detect open or shorted elements quickly.

Photovoltaic Panel Output Measurement



The DT sensor will produce a signal directly proportional to the current produced by the panel or string of panels, with an output to match the controller being used.

 For additional Application Examples, go to www.nktechnologies.com/applications

DC Current Transducer Features

Voltage Output

- 333 mVDC, 5 or 10 VDC proportional to DC current.
- Compatible with many monitoring systems.

5 VDC Powered

- · Use with data collection systems.
- · Available with 333 mVDC output.

12 VDC Powered

• Available with 0.333, 5 or 10 VDC output.

Ranges to Suit Your Needs

- 0-50 A DC.
- 0-100 A DC.

Temperature Compensated

· Remains accurate with rise or fall of ambient temperature.

Built-in Mounting Feet

 Simple, two-screw panel mounting or attach with DIN rail brackets (included).*

Split-core Case

 Open to snap the sensor over existing conductor; no need to disconnect the load to install.

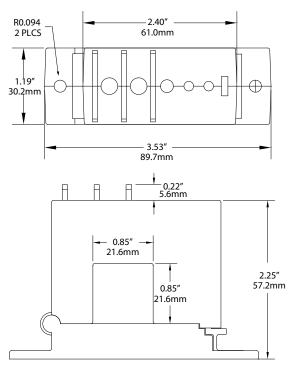
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Accepted worldwide.

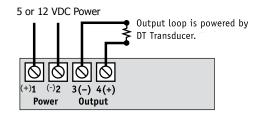




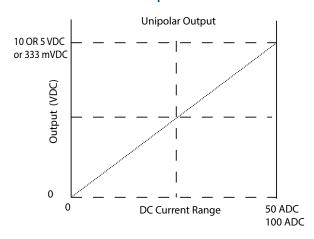




DC Current Transducer Connections



DC Current Transducer Output



Output remains accurate even as the temperature rises and falls from -20°C to +50°C (-4 to +122 °F) with our patent pending design.

DC Current Transducer Specifications

Power Supply	5 VDC (5.1-5.9 V)	12 VDC (11.5-13.2 V)		
Power Consumption	<8.5 mA (no load) <2 VA (333 mVDC output)			
Output Signal	0-333 mVDC	0-5 VDC or 0-10 VDC		
Output Impedence	50 Ω minimum, 20 mA maximum (333 mVDC)	10 K Ω minimum (0–5 or 0–10 VDC output)		
Accuracy	1.0% full scale across temperature range			
Response Time	400 ms (90% step change)			
Frequency Range	DC			
Isolation Voltage	UL listed to 1270 VAC, t	ested to 5 KV		
Case	UL94 V-0 Flammability Rated -4 to 122°F (-20 to 50°C) 0–95% RH, non-condensing			
Environmental				
Listings	Designed for UL/cUL approval			

DC Current Transducer Ordering Information

Sample Model Number: DTB-333-05D-U-SP Split-core DC current transducer, 0–50 A range, 0–333 mVDC, 5 VDC powered, unipolar output. (DIN rail adapters are included)

(1) (2)		(3)			(4)			(5)						
DT		_			-				_	U	_	S	Р	

(1) Range

В	0–50 A
С	0–100 A

(2) Output Signal

333	333 mVDC
005	5 VDC
010	10 VDC

(3) Power Supply

05D	5 VDC (0-0.333 VDC output only)
12D	12 VDC (0-0.333, 0-5 or 0-10 VDC output only)

(4) Signal Response Type

U Unipolar (output with current in one direction only)

(5) Case Style

SP Split-core





DT-FD SERIES, HIGH VOLTAGE

HV DC Current Transducer

DT-FD series DC Current Transducers provide a large sensing window and the ability to monitor circuits with voltages up to 1500 VDC. The sensor can be mounted on a DIN rail or be attached to a back panel with screws. Easily accessible power supply and output-signal, finger-safe terminals are located on the top of the sensor to allow for a clean and troublefree installation. The one-piece design combines the current sensing elements and the signal conditioning to provide an output compatible with most control systems, increasing the safety and accuracy of the installation.



DC Current Transducer Applications

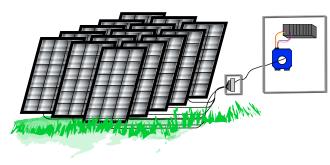
Monitor Large Solar Panel Installations

• Large utility connected photovoltaic generation systems will often produce DC power at higher voltages as the wire can be smaller for the same amount of power produced.

Monitor DC Motors

· Traction and drilling equipment use higher voltage DC motors to produce high torque output at low speeds.

Solar Array Application



Commercial and industrial ground mounted solar arrays are connected in series to combiner boxes, developing higher voltage and lower current to deliver the same power as with a lower voltage system.

DC Current Transducer Features

Industry Standard Analog Output

- Interfaces with PLC's, panel meters and data acquisition systems quickly, with simple programming by the installer.
- Compatible with most automation and control systems.

Externally Powered

• 24 VAC or DC (output not isolated from the power supply).

No Need For Span or Range Adjustment

- · Factory set calibration reduces setup time.
- · Warranted to produce accurate signals for five years. (Our decades of experience designing and producing DC current transducers shows that the calibration stays accurate for many years beyond the warranty period.)

Large Solid-core Case

· Sensing window provides ample space for single or multiple conductors.

DIN Rail or Panel Mount

• Simply snap onto DIN rail or attach with screws to a panel.*

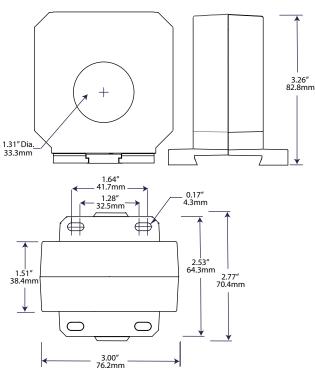
UL/cUL Approved, CE Pending

· Accepted worldwide.

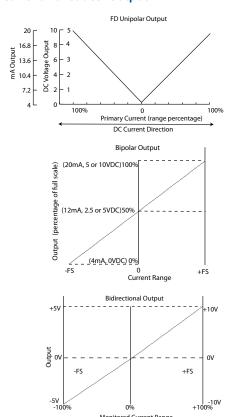








DC Current Transducer Output



Monitored Current Range

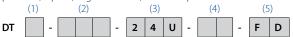
DC Current Transducer Specifications



Power Supply		24 VAC/DC (22–26 V) (Not isolated from output signal.)
Power Con	sumption	<3 VA
Output		Unipolar (output with DC current in both directions) Bipolar (Output 4–12–20 mA, 0–2.5–5 V or 0–5–10 V) Bidirectional (output +/-5 or +/-10 VDC)
Ouput Limi	ts	20.8 mA, 5.25 or 10.5 VDC (model dependant)
Accuracy		1.0% FS
Response T	ime	150 ms maximum
Ranges	2	0–200 ADC
	3	0–300 ADC
	4	0–400 ADC
Working Vo	ltage	1500 V DC (Tested to 5375 V AC)
Frequency	Range	DC
Case		UL94 V-0 Flammability Rated
Environme	ntal	-4 to 122°F (-20 to 50°C) 0–95% RH, non-condensing
Listings		UL/cUL approved, CE pending

DC Current Transducer Ordering Information

Sample Model Number: DT2-420-24U-BP-FD DC Current transducer, 0–200 A range, 4–20 mA output, 24 VAC/DC powered, bipolar, large solid-core, DIN rail or panel mount case.



(1) Range

2	0–200 ADC
3	0–300 ADC
4	0-400 ADC

(2) Output Signal

420	4–20 mA (U and BP only)
005	0-5 VDC
010	0–10 VDC

(3) Power Supply

(4) Ouput Type

U	Unipolar (output with current flowing in both directions)
BP	Bipolar (output indicates current flow direction)
BD	Bidirectional (output is positive with current in one direction, negative with current in the opposite direction)

(5) Case

FD	Large, solid-core, DIN rail or panel mount





DT-DL SERIES, LARGE APERTURE

DC Current Transducers

DT Series Large Aperture DC Current Transducers combine a Hall effect sensor and signal conditioner into a single package for use in DC current applications up to 1200 A. The DT Series Large Aperture Transducers have factory set and calibrated ranges, industry standard 4-20 mA, 0-5 VDC or 0-10 VDC outputs, and are available in solid-core DIN rail mount case.



Battery Banks

- Monitor load and charging currents.
- · Verify operation.

Transportation

• Measure traction power or auxiliary loads.

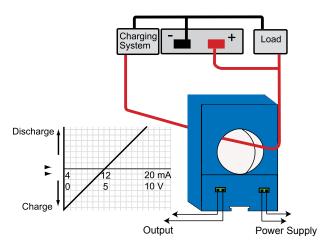
Wind and Solar Generated Power

- Measure the current produced or consumed.
- Detect mechanical problems before failure occurs.

Monitor DC Powered Motors

 Monitor current of cranes, saws, sorters and positioning equipment.

Battery Charging System



 For additional Application Examples, go to www.nktechnologies.com/applications







DC Current Transducer Features

Factory Set and Calibrated Ranges

- No need for field calibration.
- · Eliminates zero and span pots.

Isolation

- Output is magnetically isolated from the input for safety.
- Eliminates insertion losses, no added burden.

Internal Power Regulation

- Works well, even with unregulated power.
- · Cuts installation cost.

DIN Rail Mounted Case*

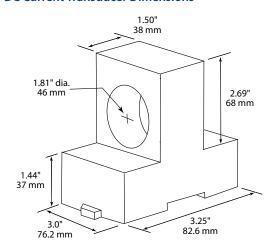
- Makes installation a snap.
- · No drilling or screws to lose.
- · Optional DIN rail kit available for chassis mounting.*

UL/cUL and CE Approved

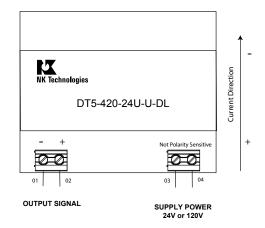
· Accepted worldwide.



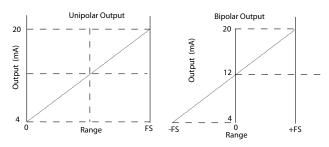




DC Current Transducer Connections



DC Current Transducer Output



Notes: Deadfront captive screw terminals. 12–22 AWG solid or stranded. Observe polarity.

Unipolar Output: Signal With Current flowing in one direction only.

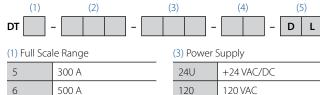
DC Current Transducer Specifications



	c o us				
Power Supply	• 120 VAC (108–132 V) • 24 VAC/DC (22–26 V)				
Power Consumption	2 VA				
Output Signal	4-20 mA, 0-5 VDC, 0-10 VDC				
Output Limit	• 4–20 mA: 23 mA • 0–5 VDC: 5.75 VDC • 0–10 VDC: 11.5 VDC				
Output Impedence	 4–20 mA: 650 Ω max. 0–5 VDC: 25 KΩ min. 0–10 VDC: 50 KΩ min. 				
Accuracy	2.0% FS				
Repeatability	1.0% FS				
Response Time	100 ms (to 90% of step change)				
Range	0–1200 A DC				
Frequency Range	DC				
Isolation Voltage	UL listed to 1270 VAC, tested to 3 KV (monitored line to output)				
Case	UL94 V-0 Flammability Rated				
Environmental	-4 to 122°F (-20 to 50°C) 0–95% RH, non-condensing				
Listings	UL/cUL, CE				

DC Current Transducer Ordering Information

Sample Model Number: DT6-420-24U-U-DL Solid-core DC current transducer, 0–500 A range, 4–20 mA, 24 VAC/DC powered, unipolar output.



5	300 A
6	500 A
7	750 A
8	1000 A
9	1200 A

(2) Output Signal						
420	4–20 mA					
005	0-5 VDC					
010	0-10 VDC					

	(4) Output Polarity					
U		Unipolar				
	BP	Bipolar				
	(5) Case Style					
	DL	Solid-core, DIN rail				

mounting





DLT SERIES

DC Current Transducers

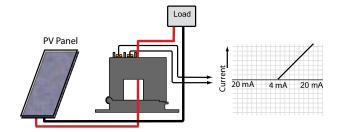
DLT Series DC Current Transducers combine a Hall effect sensor and a signal conditioner into a single package. The DLT Series DC Current Transducers are designed to produce an analog 4-20 mA signal proportional to the DC current in the primary conductor. These transducers are available in a solidcore or split-core case design. Lower current ranges make this sensor ideal for use in photovoltaic panel combiner boxes.

DC Current Transducer Applications

DC Current Monitoring

- PV Array combiner boxes.
- · Wind generators.
- DC heating applications.
- · UPS system monitoring.

Photovoltaic Arrays



 For additional Application Examples, go to www.nktechnologies.com/applications

Monitoring PV Arrays:

The current produced by a photovoltaic module or array can be easily monitored by using the DLT series current sensors over the conductor exiting the collectors. Using a simple two-wire connection powered by 24 VDC nominal in series with the sensor output, the sensor will produce a signal in real time that is directly proportional to the current being produced by the PV module.

If a single cell fails, or a module quits operating properly, the current output will drop, and the current sensor will reflect the change.

Safer and more stable than shunts, non-contact current sensors are a simple answer to measuring DC current at any point in the PV system.



DC Current Transducer Features

4-20 mA Loop-powered Output

· Industry standard connections, positive indication of correct field wiring.

Single Range

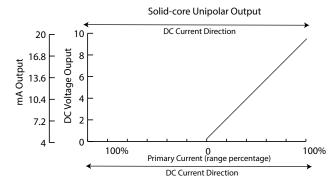
- · No chance of field range selection errors.
- · Eliminates zero and span pots.

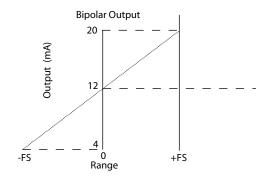
- Output is magnetically isolated from the primary circuit
- Eliminates insertion loss (voltage drop).

UL/cUL and CE Approved

· Accepted worldwide.

DC Current Transducer Output



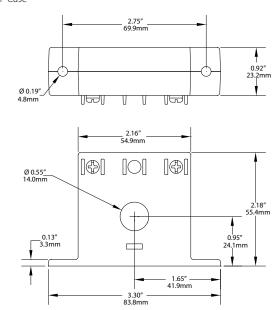




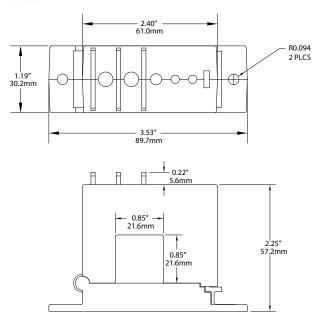




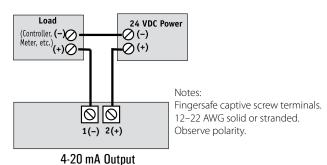
FF Case



SP Case



DC Current Transducer Connections



DC Current Transducer Specifications



Power Supply	24 VDC (12-40 V)				
Output Signal	4–20 mA, loop-powered				
Output Limit	23 mA				
Accuracy	1.0% FS				
Response Time	100 ms (to 90% step change)				
Range	0-20 to 0-400 DC, see ordering information				
Frequency Range	DC				
Isolation Voltage	UL listed to 1270 VAC, tested to 5 KV				
Case	UL94 V-0 Flammability Rated				
Environmental	-4 to 122°F (-20 to 50°C) 0–95% RH, non-condensing				
Listings	UL/cUL, CE				

DC Current Transducer Ordering Information*

Sample Model Number: DLTB-420-24L-BP-FF DC current transducer, 50 A range, 4–20 mA output, 24 VDC loop-powered in a solid-core case. (DIN rail adapters are included)

	(1)			(2)				(3)			(4	4)		(5	5)
DLT		-	4	2	0	-	2	4	L	-			-		

(1) Full Scale Range

А	0–20 A
В	0–50 A
С	0–100 A
D	0–200 A
Е	0–300 A
F	0–400 A

(2) Output Signal

420	4–20 mA
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(3) Power Supply

24L	24 VDC loop-powered
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(4) Output Polarity

U	Unipolar
BP	Bipolar

(5) Case Style (black only)

FF	Solid-core, front terminals (max. range 0–100 A)
SP	Split-core (min. range 0–50 A)

^{*}Bulk packaging only.



