



DT Series

'DT' Current Transducers from NK Technologies combine a Hall effect sensor and signal conditioner into a single package. The DT Series has jumper selectable current input ranges and industry standard 0–20mA, 4–20mA, 0–3VDC, 0–5VDC or 0–10VDC outputs. Available in a split core package.

DC Current Transducers
0-3/5/10VDC or 4-20mA Output

Applications

Battery Banks

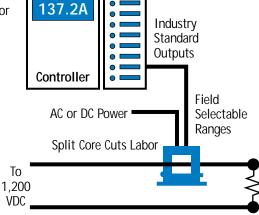
- Monitors load current.
- Monitors charging current.
- Verifies operation.

Transportation

Measures traction power or auxiliary loads.

Electric Heating Elements

Faster response than temperature sensors.



Features

Three Jumper Selectable Ranges

- 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 costs.

Easy Installation

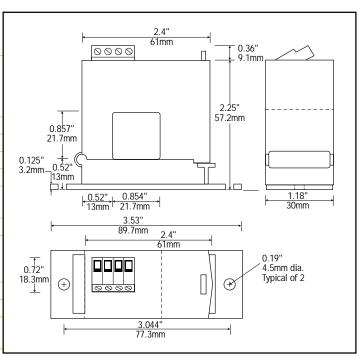
Split core design with built-in mounting brackets makes installation a snap.

DC Current Transducers 0-3/5/10VDC and 4-20mA Output

Know your power...

because with knowledge comes control.

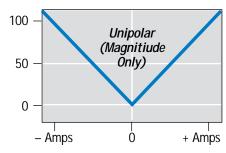
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Specifica	tions
Output Signal	0-20mA, 4-20mA, 0-3VDC, 0-5VDC or 0-10VDC
Output Limit	 0-20mA, 4-20mA: 44mA 0-3VDC: 6.5VDC 0-5VDC: 13VDC 0-10VDC: 26VDC
Accuracy	1.0% FS
Repeatability	1.0% FS
Response Time	100mS (to 90% of step change)
Frequency Range	DC
Power Supply	20–50VDC, 22–38VAC. Power input and output signal are not isolated.
Power Consumptio	n 2VA
Loading	= 0–20mA, 4–20mA: 650Ω max. = 0–3/5/10VDC: 250 kΩ for rated accuracy; 25 kΩ, add 1% error.
Isolation Voltage	3kV (monitored line to output)
Linearity	0.75% FS
Current Ranges	Field Selectable Ranges from 0–400A (see Ordering Information)
Sensing Aperture	0.85" (21.5mm) sq.
Case	UL 94V-0 Flammability rated
Environmental	–4 to 122°F (–20 to 50°C), 0–95% RH, non-condensing



Connections

Output Polarity

Output (%)



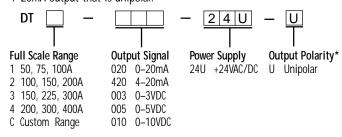
Notes:

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

Ordering Information

Example: DT2-420-24U-U

Split core DC/DC current switch, mid range, 24VAC/DC powered with a 4–20mA output that is unipolar.



^{*}Bipolar version available in mid 2000.

DC Current Transducers 0-3/5/10VDC and 4-20mA Output