

DT-FD SERIES

DT-FD SERIES, HIGH VOLTAGE HV DC Current Transducers

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 trouble-free 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 Transducers

DC Current Transducer Applications

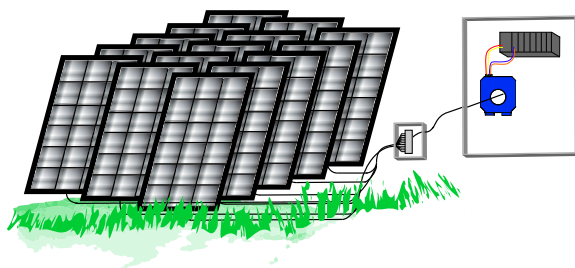
Monitor Large Solar Panel Installations

- 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 PLCs, 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 and CE Approved

- Accepted worldwide.

*For information on the DIN rail accessories kit, see page 144.

OEMs

Test & Evaluation Units for OEMs

Free program expedites evaluation process. See page 3 for details.


NK Technologies

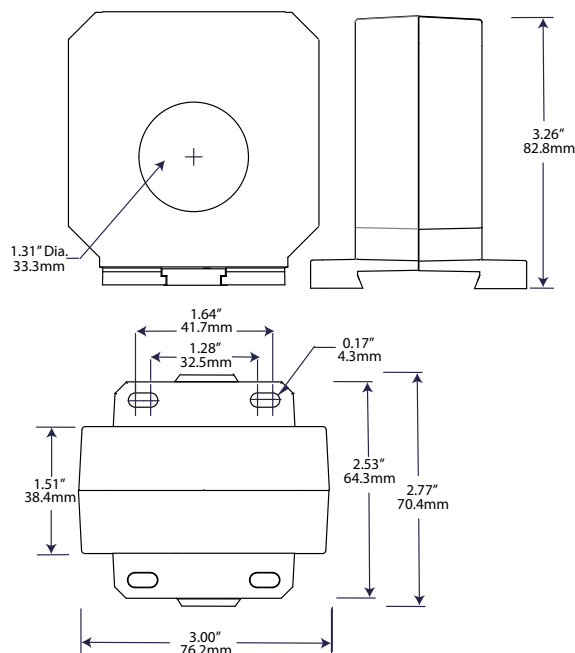
3511 Charter Park Drive • San Jose, CA 95136
800.959.4014 • www.nktechnologies.com • sales@nktechnologies.com



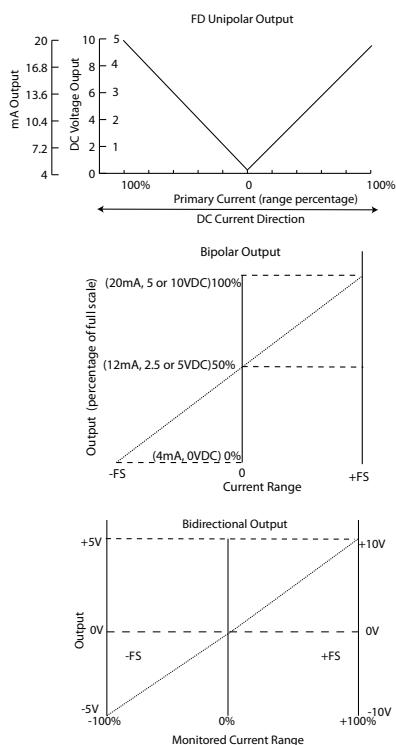
원문: NK Technologies DT-FD 시리즈, HIGH VOLTAGE 카탈로그(영문) · 제조사 원문 자료입니다. 사양은 제조사 사정에 따라 변경될 수 있습니다.

DT-FD SERIES

DC Current Transducer Dimensions



DC Current Transducer Output



DC Current Transducer Specifications



Power Supply	24 VAC/DC (22–26 V) (Not isolated from output signal.)						
Power Consumption	<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)						
Output Limits	20.8 mA, 5.25 or 10.5 VDC (model dependant)						
Accuracy	1.0% FS						
Response Time	150 ms maximum						
Ranges	<table border="1"> <tr><td>2</td><td>0–200 ADC</td></tr> <tr><td>3</td><td>0–300 ADC</td></tr> <tr><td>4</td><td>0–400 ADC</td></tr> </table>	2	0–200 ADC	3	0–300 ADC	4	0–400 ADC
2	0–200 ADC						
3	0–300 ADC						
4	0–400 ADC						
Working Voltage	1500 V DC (Tested to 5375 V AC)						
Frequency Range	DC						
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-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.

DT (1) (2) (3) (4) (5)
DT [] - [] - 2 4 U - [] - F D

(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

24U	24 VAC/DC
-----	-----------

(4) Output 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
----	--



3511 Charter Park Drive • San Jose, CA 95136
800.959.4014 • www.nktechnologies.com • sales@nktechnologies.com

