





DLT Series DC Current Transducers combine a hall effect sensor and a True RMS signal conditioner into a single package. The DLT Series is designed to produce an analog 4–20 mA signal proportional to the DC current in the primary conductor. Available in a solid-core or split-core case design. Lower current ranges make this sensor ideal for use in photovoltaic panel combiner boxes.

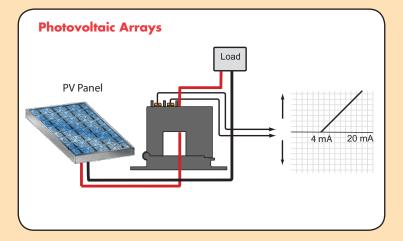
DLT SERIES

DC Current Transducers

Applications

DC Current Monitoring

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



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.

Isolation

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

Agency Approval

UL Pending

Monitoring PV Arrays:

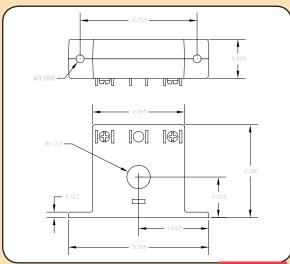
The current produced by a photovoltaic module or array can be easily monitored by using the DLT series current sensors over the conductor exiting the collectors. A simple two-wire connection, powered by 24 VDC nominal in series with the sensor output, and the sensor will produce a signal in real time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

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

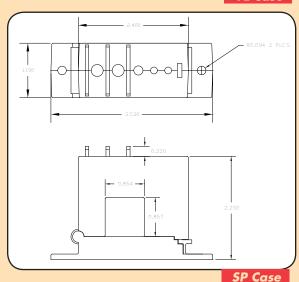
Safer and more stable than shunts, non-contact current sensors are a simple answer to measuring DC current at any point in the PV system.



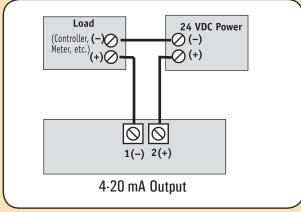
Dimensions



FL Case



Connections



Notes: Fingersafe captive screw terminals. 12-22 AWG solid or stranded. Observe polarity.

Specifications

Output Signal	4–20mA, Loop-powered
Output Limit	23mA
Accuracy	1.0% FS
Response Time	100 ms (to 90% step change)
Frequency Range	DC
Power Supply	24VDC Nominal, 40VDC Maximum
Isolation Voltage	UL listed to 1,270VAC (tested to 5KV)
Input Ranges	0-20 to 0-400 DC, see Ordering Information
Sensing Aperture	FF Case: 0.55" (14mm) dia.SP Case 0.84" (21.7mm) dia.
Case	UL94 VO Flammability Rated
Environmental	-22 to 158°F (-30 to 70°C) 0–95% RH, non-condensing
Listings	UL 508 Industrial Control Equipment (Pending)

Ordering Information*

Sample Model Number: DLTB-420-24L-FF DC current transducer, 50A range, 4–20mA output, 24VDC loop-powered in a solid-core case.

DLT (1) (2) (3) (4) (4)

(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 4-20mA

(3) Power Supply

24VDC Loop-powered

(4) Case Style (black only)

FF	Solid-core, Front Terminals (maximum range 0–100 A)
SP	Split-core (minimum range 0–50 A)

*Bulk packaging only.