

FL DC Shunt

Description

HDT hall effect current sensor is an open loop device based on the measuring principle of the hall effect, with a galvanic isolation between primary and secondary circuit. It provides accurate electronic measurement of DC currents.

The Hall effect current sensor provides strong electrical isolation between the output of the sensor and the current carrying conductor.

Typical shape



Technical characteristics

Material	Copper+Manganin, Copper with nickel plated
Current Rating	1 ~ 4000A: 0.5%; 5000 ~ 10000A: 1% (Default)
Operating Temperature	-40°C ~ +60°C
Voltage Drop	50mV/ 60mV/ 75mV/ 100mV(optional)
Accuracy Class	0.5 or 0.2 (Customized 0.01)
Material	Copper + Manganin, Copper with nickel plated
Overload Capacity	120% Of Rated Current For 2H
Application	Use For DC Digital Amp Meter
The load under the heat:	≤80°C @ 50A Max ≤120°C @ Other

Ordering Infomation

FL-**1**-**2**/**3**

PN Code	Optional Type & Description
1 Style	2/2A/2B: China type 2C: With patented; 2D: DIN43703 type 2F: Air cooling type; 2S Water cooling type 13: Russian type; 15: USA type 19: Soldering use type 21: Taiwan export type 27: High accuracy(0.2) 28: High accuracy(0.1) 29: Bend type; 39: Middle type U: U shape; P: slice shape P1: Slice shape with non-inductive T1: Round tube non-inductive type
2 Rated current	Value 1A-15000A
3 Voltage drop	10mV ~ 800mV Blank: 75mV

HDT HALL Effect CT

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Main Features

- Accuracy class: 0.5%.
- Multiple current input options for wide compatibility.
- Two available output options: 4-20mA or 0-5V.
- Features a hinged split-core design for fast installation.
- Measure up to 1000A DC current (depending on model).
- Choose uni-directional or bi-directional measurements.



Technical characteristics

Type	HDT-100A	HDT-200A	HDT-300A	HDT-400A	HDT-500A
Rated current (I _{pn} DC)	100A	200A	300A	400A	500A
Measure range (I _p DC)	0-150A	0-300A	0-450A	0-600A	0-750A
Rated output	4V @ I _p =±I _{pn} DC				
Supply voltage	± 12V, ±15V, ±24V Optional				
Power Consume	<25mA				
Offset voltage	±20mV @ I _p =0				
Magnetic offset	±20mV @ I _p = ±I _{pn} -0				
Offset drift	≤±1mV/°C @ -40 ~ +85°C				
Output drift	≤±1mV/°C @ -40 ~ +85°C				
Linearity	≤1%FS @ I _p =0-±I _{pn}				
Response time	≤7us @ 50A/uS, 10%-90%				
Galvanic	2.5KV @ 50HZ.AC.1min				