

DATA SHEET DSII-10A



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Product Overview

The DSI shunt adapter is an adapter for current measurement on any DSUB9 connector except for the DEW43 amplifier. The technology is based on the hall effect...



Working principle:

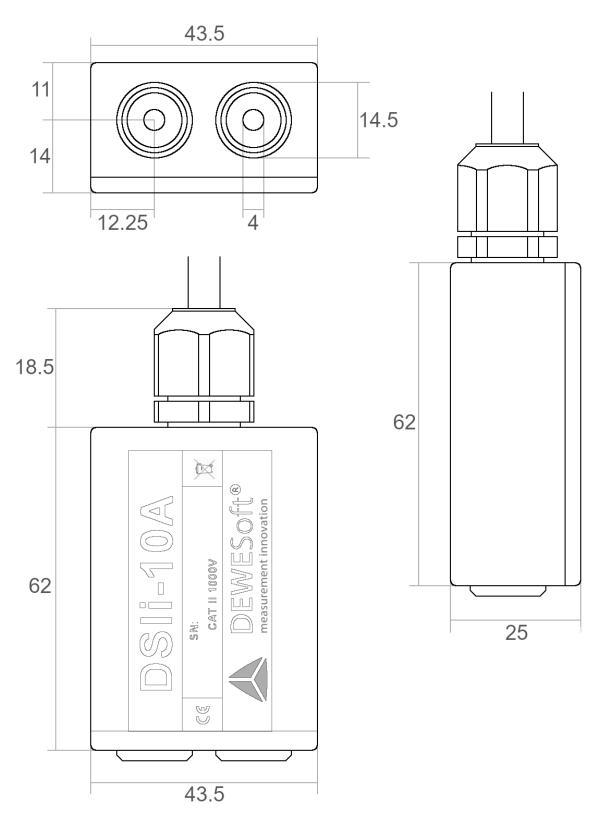
These types of current transducers measure the magnitude of the magnetic field that is created by the flow of current. A voltage is generated by the transducer that is known as a Hall voltage that is induced by the magnetic field, the transducer then measures the magnetic flux density of the field.

Therefore the working principle of this type of transducer is based on the Hall voltage principle. In essence this principle states that if a conductor (or semiconductor) that has a current flowing through it in one direction, is brought in contact with a magnetic field, a voltage can be measured.





Dimensions



All dimensions are in [mm]





Specifications

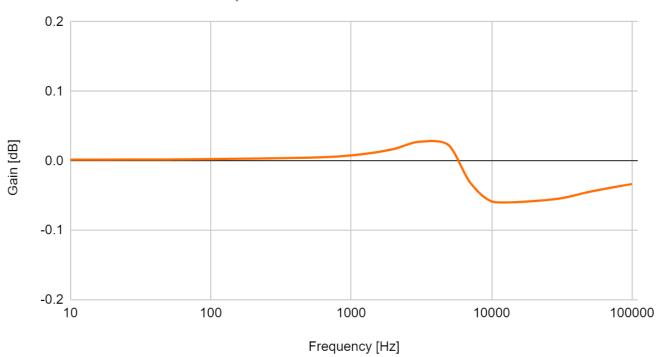
DSI 10A				
Input Specifications		Environmental specifications		
Input connector type	4 mm Banana	Dimensions	65 x 44 x 24 mm	
Current range	10 A dc or ACpeak	Power supply	5 V	
Accuracy	0,5% of reading	Current consumption	max. 30 mA	
Phase error	< 0.1° (50 Hz)	Operating temperature	-40 °C to +55 °C	
Bandwidth	1 kHz (0.05 dB, 0.1°) 10 kHz (0.1 dB, 1.5°) 100 kHz (0.2 dB, 6°)	Isolation	4 kVp	
TEDS	Fully Supported	Safety	600 V CAT III	
Overload capability	100 A nominal current for < 1 sec			
Zero offset	20 mA			
Temperature coefficient	40 ppm/K			



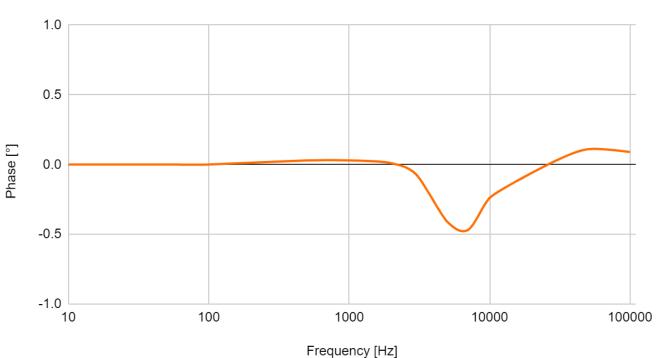


Amplitude and Phase Characteristics





Phase Characteristic







Document version history

Revision Number: 1

Last modified: 13 August 2021

Version	Date [yyyy.mm]		Notes
V21-1	2021-08	Initial document creation	