

# CLAMPS & TRANSDUCERS



## -40°C TO +85°C

Dewesoft offers current transducers with wide temperature range - ideal for both winter (-40°C) and summer testing (+85°C).

## FLEXIBLE

Dewesoft instruments allow connecting any type of current transducers. There are more than 1000 different current sensors available on the market. If you want to connect your own or other sensors we are happy to help you.

## UP TO 30 000 AMPS

Dewesoft offers a very wide range of current measurement ranges up to 30 000 (30 thousand) amps.

## AC/DC CURRENT MEASUREMENT

Dewesoft offers high-accuracy zero-flux current transducers, Rogowski coils, current clamps and shunts for AC and/or DC current measurement.

High-accuracy sensors for AC/DC current measurement and power analysis. From current clamps, high-precision zero flux current transducers, shunts and Rogowski coils.

## HIGH ACCURACY

Highly precise zero flux current transducers or fluxgate compensated clamps are a perfect fit for most demanding power measurements for E-mobility and inverter motors applications.

## INTEGRATED SENSOR POWER SUPPLY

Current clamps and zero-flux transducer can be powered straight from the DAQ instrument like R2DB, R8 or with external SIRIUS slice compatible chassis.



# CURRENT CLAMPS AC/DC



	DS-CLAMP-200DC	DS-CLAMP-500DCS	DS-CLAMP-500DC	DS-CLAMP-1000DC	DS-CLAMP-150DC	DS-CLAMP-150DCS	DS-CLAMP-1800DC
Current Range	200 A DC or AC RMS	500 A DC or AC RMS	500 A DC or AC RMS	1000 A DC or AC RMS	200 A DC or 150 A AC RMS	250 A DC or 150 A AC RMS	1800 A DC or AC RMS
Type	Flux Gate sensor	Flux Gate sensor	Flux Gate sensor	Flux Gate sensor	Hall sensor	Hall sensor	Hall sensor
Sensitivity	± 10 mV/A	± 4 mV/A	± 4 mV/A	± 2 mV/A	20 mV/A	20 mV/A	1 mV/A
Accuracy	0.3 % of reading	0.3 % of reading	0.3 % of reading	0.3 % of reading	1 % + 2 mA	1 % + 2 mA	0 - 1000 A: ± 2.5 % of reading ± 0.5 A 1000 - 1500 A: ± 3.5 % of reading 1500 - 1800 A: ± 5 % of reading
Bandwidth	DC to 500 kHz	DC to 200 kHz	DC to 100 kHz	DC to 20 kHz	DC to 100 kHz	DC to 100 kHz	DC to 20 kHz
TEDS	Fully supported	Fully supported	Fully supported	Fully supported	Fully supported	Fully supported	Fully supported
Conductor Position Sensitivity	max. ± 0.1 % of reading	max. ± 0.1 % of reading	max. ± 0.2 % of reading	max. ± 0.2 % of reading	± 0.5 %	± 0.5 %	± 1.5 %
Zero Offset (+25°C)	max. ± 10 mA	max. ± 250 mA	max. ± 250 mA	max. ± 50 mA	± 10 mV max. + 1 mV/°C	± 10 mV max. + 1 mV/°C	-
Dimensions [mm]	153 x 67 x 25	153 x 67 x 25	238 x 114 x 35	238 x 114 x 35	205 x 60 x 15	106 x 100 x 25	205 x 60 x 15
Max. Conductor Size	20 mm	20 mm	50 mm	50 mm	32 mm	25 mm	32 mm
Power Supply	± 11 V to ± 15 V	± 11 V to ± 15 V	± 11 V to ± 15 V	± 11 V to ± 15 V	± 10 V	± 10 V	+ 9 V
PWR-MCTS2 needed	Yes	Yes	Yes	Yes	No	No	No

# CURRENT CLAMPS AC / ROGOWSKY COILS AC



	DS-CLAMP-5AC	DS-CLAMP-15AC	DS-CLAMP-200AC	DS-CLAMP-1000AC
Type	Iron-Core	Iron-Core	Iron-Core	Iron-Core
Range	5 A AC RMS	15 A AC RMS	200 A AC RMS	1000 A AC RMS
Sensitivity	100 mV/A	100 mV/A	10 mV/A	1 mV/A
Accuracy (+25 °C)	5 mA - 0.5 A ± 2 % of reading 0.5 A - 1 A ± 1 % of reading 1 A - 12 A ± 0.5 % of reading	< 1 A ± 2.5 % of reading 1 A - 15 A ± 1 % of reading	0.5 A - 10 A ± 3.5 % of reading 10 A - 100 A ± 2.5 % of reading 100 A - 240 A ± 1 % of reading	< 1 A ± 2 % of reading 10 A - 100 A ± 0.5 % of reading 100 A - 1200 A ± 0.3 % of reading
Phase Error	5 mA - 0.5 A ± 2 ° 0.5 A - 1 A ± 1 ° 1 A - 12 A ± 1 °	< 1 A ± 5 ° 1 A - 15 A ± 3 °	0.5 A - 10 A not specified 10 A - 100 A ≤ 5 ° 100 A - 240 A ≤ 2.5 °	< 1 A not specified 10 A - 100 A ≤ 1 ° 100 A - 1200 A ≤ 0.7 °
Bandwidth	2 Hz to 5 kHz	2 Hz to 10 kHz	2 Hz to 10 kHz	2 Hz to 10 kHz
Resolution	0.01 A	0.01 A	0.5 A	0.001 A
TEDS	Fully supported	Fully supported	Fully supported	Fully supported
Overload Capability	1.5 x I nominal	1.3 x I nominal	1.3 x I nominal	1.3 x I nominal
Dimensions [mm]	102 x 34 x 24	135 x 51 x 30	135 x 51 x 30	216 x 111 x 45
Conductor Diameter	15 mm	20 mm	20 mm	52 mm

Other Current Transducers for AC and DC measurement from 300 mA up to 4000 A on request.



	DS-FLEX-3000-17	DS-FLEX-3000-35	DS-FLEX-3000-35-HS	DS-FLEX-3000-80	DS-FLEX-30000-120
Type	Rogowski coil	Rogowski coil	Rogowski coil	Rogowski coil	Rogowski coil
Current Range	3 A, 30 A, 300 A, 3000 A AC RMS	3 A, 30 A, 300 A, 3000 A AC RMS	3000 A AC RMS	3 A, 30 A, 300 A, 3000 A AC RMS	30 A, 300 A, 3000 A, 30000 A AC RMS
Bandwidth	3 A: 10 Hz to 10 kHz	3 A: 10 Hz to 10 kHz Others: 10 Hz to 20 kHz	5 Hz - 1MHz	3 A: 10 Hz to 10 kHz Others: 10 Hz to 20 kHz	3 A: 10 Hz to 5 kHz Others: 10 Hz to 20 kHz
Others: 10 Hz to 20 kHz	3 A: 10 Hz to 10 kHz	≤ 1,5 %	≤ 1,5 %	≤ 1,5 %	≤ 1,5 %
Others: 10 Hz to 20 kHz	5 Hz - 1MHz	3 A: 10 Hz to 10 kHz	350 mm (Ø 100 mm)	800 mm (Ø 250 mm)	1200 mm (Ø 380 mm)
Others: 10 Hz to 20 kHz	30 A: 10 Hz to 5 kHz Others: 10 Hz to 20 kHz	Not Supported	Fully Supported	not supported	Not Supported
Accuracy (+25 °C)	≤ 1.5 %	≤ 1.5 %	≤ 1.0 %	≤ 1.5 %	≤ 1.5 %
Coil Length	170 mm	350 mm	350 mm	800 mm	1200 mm
TEDS	Not supported	Not supported	Fully supported	Not supported	Not supported



	DSII-10A	DSII-20A	DS-SHUNT-05
Type	Current Transducer	Current Transducer	Shunt
Current Range	10A AC/DC	20A AC/DC	5A
Bandwidth	100 kHz	100 kHz	-
Accuracy (+25 °C)	0.3 %	0.3 %	0.1 %
Resistance	-	-	50 mOhm