

High precision DC and AC current clamp-on for galvanically isolated measurement up to 750 A

## Features

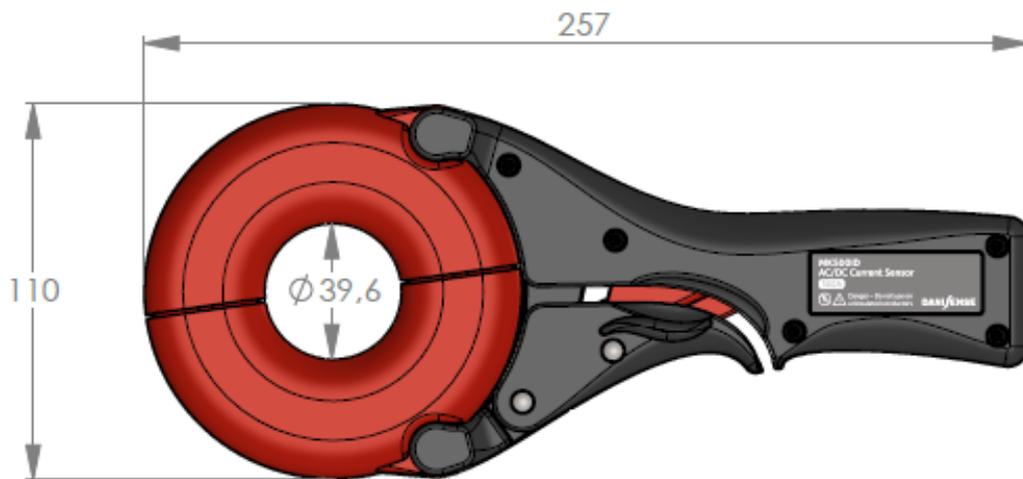
- High precision clamp-on current transducer based on the ultra stable Danisense closed loop flux gate technology
- Ø39 mm aperture
- 50-60Hz current measurement accuracy  $\pm 0.1\%$
- High Frequency bandwidth
- 4 meter cable
- Current output with D-sub-9
- Voltage output accessories available
- Linearity error 20 ppm
- Operating temperature range  $-40^{\circ}\text{C}$  to  $85^{\circ}\text{C}$

## Applications

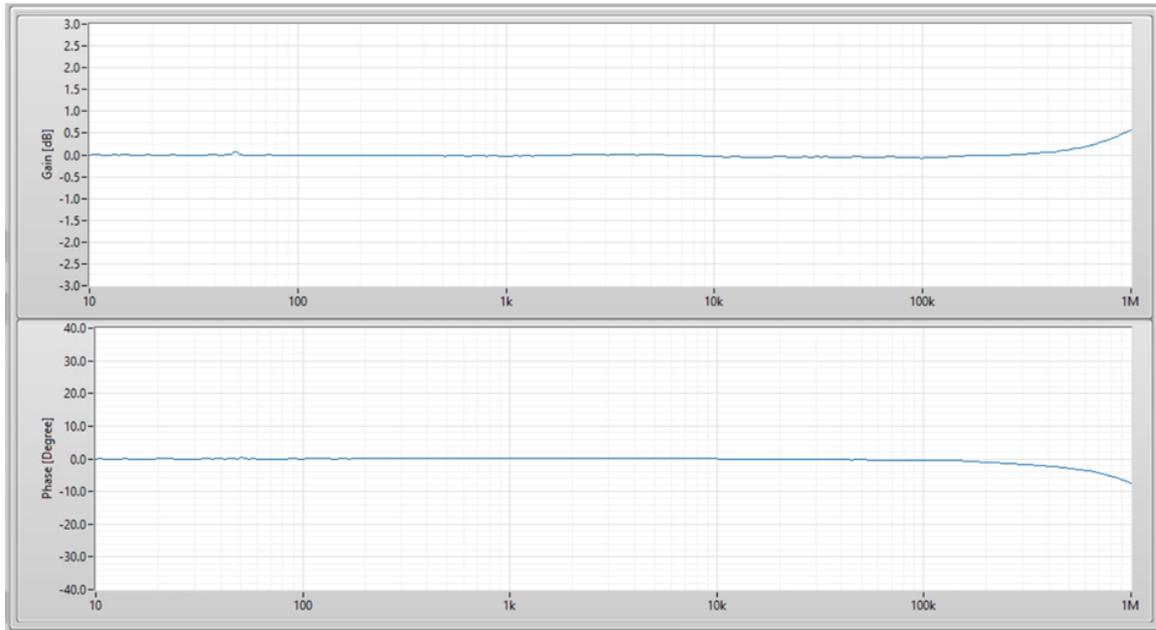
- EV battery testing
- Temporary installations
- Calibration and in-field analysis
- EV inverter evaluation
- PV power generation
- Retrofit and maintenance purposes
- Transmission and distribution
- Wind, solar and energy

Electrical specifications at  $T_a=23^{\circ}\text{C}$ ,  $V_s = \pm 15\text{ V}$  supply voltage

Parameter		Symbol	Unit	Min	Typ.	Max	Comment
Nominal primary AC current		$I_{PN\ AC}$	Arms			500	
Nominal primary DC current		$I_{PN\ DC}$	A	-500		500	
Measuring range		$I_{PM}$	A	-750		750	
Overload capacity		$\hat{I}_{OL}$	A			1500	Non-measured, 100ms
Nominal secondary current		$I_{SN}$	mA	-333		333	At nominal primary current
Primary / secondary ratio				1500		1500	$I_{primary}/I_{secondary}$
Measuring resistance		$R_M$	$\Omega$		3		
Linearity error		$\epsilon_L$	%	0.002%			% refers to reading
Total accuracy	DC to 100Hz <1kHz <10kHz <100kHz	$\epsilon_{tot}$	%	0.1%			% refers to nominal current
	0.2%						
	0.4%						
	10%						
Phase shift	DC to 100Hz <1kHz <10kHz <100kHz	$\theta$	°	0.05°			
	0.1°						
	1°						
	10°						
Power supply voltages			V	$\pm 14.25$		$\pm 15.75$	
Operating temperature range			$^{\circ}\text{C}$	-40		85	



Frequency characteristics



**Pin out description**

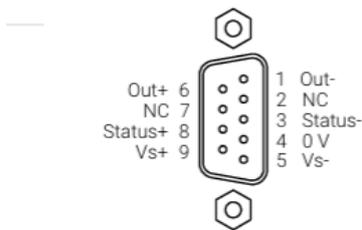
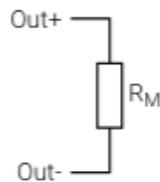


Figure 7: D-sub-9 connection pinout

1	Out-	Measurement output negative terminal
2	NC	No connection
3	Status-	Status signal negative terminal
4	0 V	0 V connection for supply voltage
5	V <sub>s</sub> -	Negative supply voltage
6	Out+	Measurement output positive terminal
7	NC	No connection
8	Status+	Status signal positive terminal
9	V <sub>s</sub> +	Positive supply voltage



External measurement resistor connection