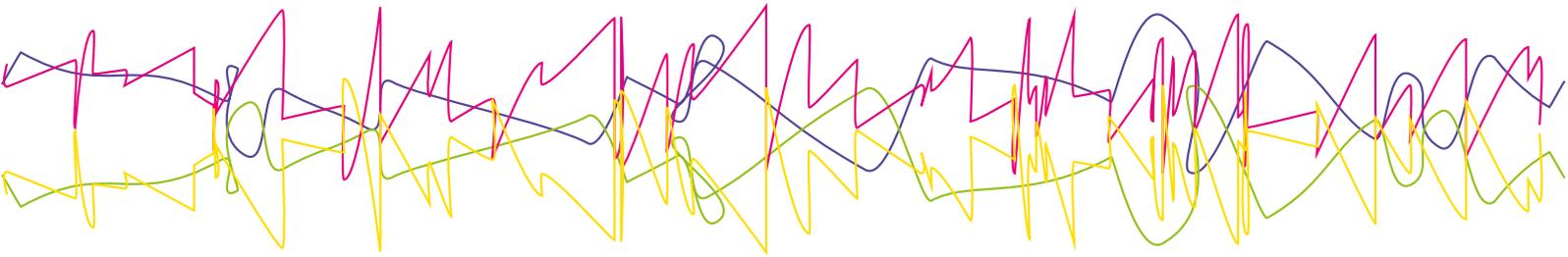


Specification of the STACC

Accuracy makes the difference



Main characteristics

Rated input current (I_{PN})	up to ± 6000 A (customer defined)	
Permissible overcurrent ¹ (10 s)	115 % of I_{PN}	
Permissible overcurrent (0.1 s)	1000 % of I_{PN}	
Output transfer ratio	10 V at I_{PN}	
Output load	< 5 mA (equals 2 k Ω at 10V)	
Output max.	13.5 V (no load)	
Output impedance	< 50 m Ω	
Output rise/fall time (10...90 % of step height)	< 4 μ s	
Small signal bandwidth ² (5 % of I_{PN}) see note	500 kHz (-3 dB)	
Output noise ³ (related to I_{PN})	$I_{PN} < 1000$ A	$I_{PN} \geq 1000$ A
BW = 10 Hz	< 0.5 ppm _{RMS}	< 0.25 ppm _{RMS}
BW = 100 Hz	< 2 ppm _{RMS}	< 0.5 ppm _{RMS}
BW = 10 kHz	< 5 ppm _{RMS}	< 2 ppm _{RMS}
Output offset error at 23 °C (related to I_{PN})	< 10 ppm (delivery figure, adjustable at site)	
Offset drift (TC)	< 1 ppm/K	
Offset error versus time	< 5 ppm/year	
Offset error versus supply voltage	< 1 ppm (for 5 % change in supply voltage)	
Offset error versus external magnetic field (< 5 mT)	< 2 ppm/mT (DC-field)	
Output ratio error at 23 °C (related to actual I_p)	< 50 ppm (delivery figure, adjustable at site)	
Ratio drift (TC)	< 1 ppm/K	
Ratio error versus time	< 10 ppm/year	
Linearity error (related to actual I_p)	< 10 ppm	
Distance (E) return bar to measuring head	E (mm) > 50 * I_p (I_p in kA)	
Induced voltage into a 1-turn primary busbar	< 0.4 mV _{pp}	

¹Above 115% the measuring head might saturate, resulting in an undefined output value

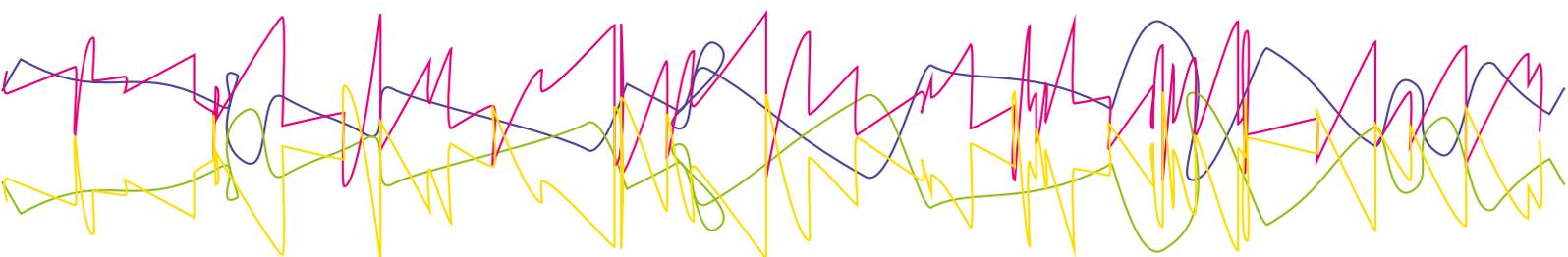
² Full power bandwidth 1kHz. Derate from 100% at 1kHz to 5% at 20kHz.

³ The noise peak-to-peak value aprox. is 5 times the RMS-value



Specification of the STACC

Accuracy makes the difference



General data

Supply voltage ($\pm 10\%$)	230 Vac - 1 ph - 50 Hz (alternative ± 24 , ± 32 or ± 40 V _{DC})
Power consumption at I _{PN}	< 80 VA (max. 50 W if DC-supplied)
Output valid indicator (lit at normal operation)	LED (green)
Output valid signal (closed at normal operation)	Relay contact (I _{MAX} = 0.5 A, V _{MAX} = 60 V)
Zero current indicator (lit if I _p < 0.1 % of I _{PN})	LED (green)
Zero current signal (closed if I _p < 0.1 % of I _{PN})	Relay contact
Ambient operating temp. electronics / measuring head	10 ... 40 °C / 0 ... 55 °C
Relative Humidity (operating)	20 ... 80 % (non condensing)
Ambient storage temperature	0 ... 55 °C
Relative Humidity (storage)	20 ... 80 % (non condensing)
Pollution degree	2

