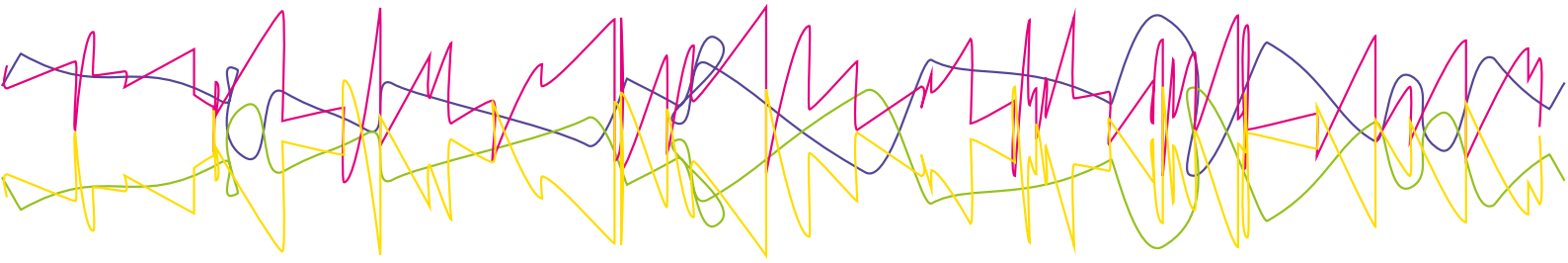
Specification of the TOPACC-HC

Accuracy makes the difference



Main characteristics	
Rated input current (I_{PN})	bipolar 30 kA, unipolar 60 kA
Output voltage at rated current	10 V
Permissible over current (10 s)	110 % of I_{PN}
Permissible over current (0.1 s)	1000 % of I_{PN}
Current slew rate	unlimited
Output impedance	< 10 mΩ
Output offset error	
Initial	< 10 ppm (adjustable to zero)
drift (TC)	< 1 ppm/K
vs. Time	< 5 ppm/year
Ratio error related to the actual output voltage	
Initial	< 25 ppm
vs. Temperature	< 1 ppm/K
vs. Time	< 5 ppm/year
Output error vs. ext.magn. Field (6mT max.)	< 1.5 ppm/mT (DC field)
Linearity error of actual I_{out}	< 10 ppm
Output noise	
BW= 10 Hz	< 0.5 ppm_{pp}
BW= 100 Hz	< 1.5 ppm_{pp}
BW = 10 kHz	< 7.5 ppm_{pp}
Small signal bandwidth (5% of I_{PN})	DC … 500 kHz (-3 dB)
Output slew rate (10…90%)	1.5 V/µs
Supply voltage	230 Vac - 1 ph - 50 Hz (207…253 Vac)[1]
Load resistor (burden)	0 … 2 Ω (With supply voltage 230 V @ I_{PN})
Induced into primary	< 500 μV_{pp}

[1] Other supply voltages possible, please contact our sales department

PM SPECIAL MEASURING SYSTEMS
a Phoenix Mecano company

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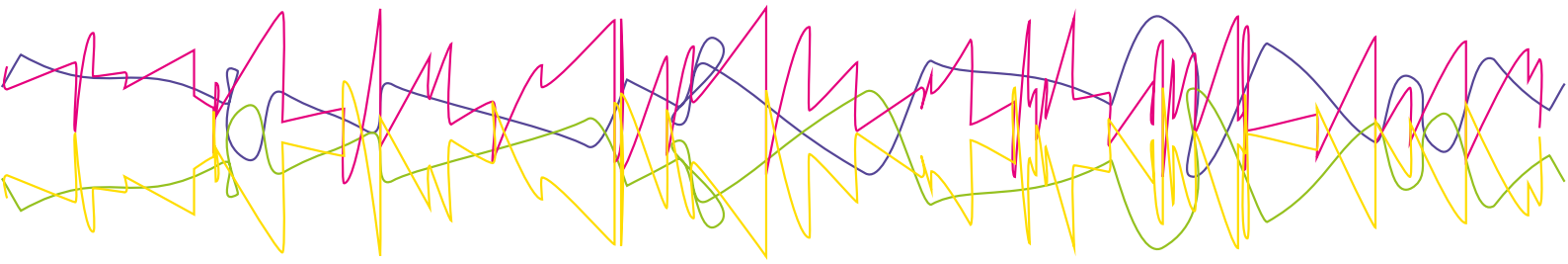

General data	
Power consumption at I_{PN}	500 VA
Maximum supply voltage Vc_{MAX}	253 Vac
Output Valid indicator	LED (green)
Output Valid contact	Relais
	I_{MAX} = 200 mA, V_{MAX} = 40 V_p
Zero current indicator	LED (green)
	at 0.1 % of I_{PN}
Ambient operating temperature electronics/measuring head	10 … +40 °C / 0 … 50 °C
Relative Humidity	20 … 80 % (Non condensing)
Ambient storage temperature	0 … +55 °C
Relative Humidity	20 … 80 % (Non condensing)
Pollution degree	2
Housing	
Dimensions (h x w x d)	133 x 482.6 x 500 mm
Measuring head	model 470-10
Dimensions (h x w x d)	610 x 610 x 210 mm
Hole diameter	250 mm
Weight	225 kg
Distance of returning busbar outside of the measuring head[2]	
With one returning busbar	> 40 x I_{PN} mm
With two symmetrically arranged busbars	> 16 x I_{PN} mm
With four symmetrically arranged busbars	> 8 x I_{PN} mm
	[2] Fill in I_{PN} in kA to find the distance
Standard cable length	3 m
Safety	
Protection Class (IEC 60950-1)	I
Protection degree	
Terminals	IP20 (Test finger, EN 60 529)
Housing	IP40 (Test finger, EN 60 529)
Isolation voltage	
Prim.busbar to output	2.5 kV / 50 Hz, 1 min (IEC61010-1)
Mains to chassis	1.5 kV / 50 Hz, 1 min (IEC61010-1)
Mains to elektronics common	1.5 kV / 50 Hz, 1 min (IEC61010-1)
Electronics to housing	500 Vdc
Impuls voltage (surge)	
Prim.busbar to output	5kV 1.2/50 µs