

# Universal Technic

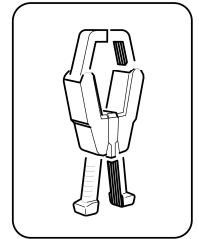
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*Your ideas ...*

## PRICE LIST 2019

Edition 1.0

*your needs ...*



*... Our products*



CE



**Universal Technic supporting your measures since 1975**



We have been designing, developing and manufacturing open frame current transducers, mainly current clamps **AC & DC**, for 40 years.

Our products allow the measure of current and power, network quality analysis, leakage current detection, data transmission...

***SELECT YOUR TYPE OF CLAMP***

**Answering the following questions will help you select the best clamp for your application:**

- Determine if you are measuring an alternating current or a continuous one.  
The clamps for continuous current are indexed in AC-DC as they measure the both.
- Determine the range from the lowest and highest currents ?
- Check that the accuracy, on low level, is suitable or choose a clamp for lower current.  
Most of the clamps have a better accuracy on the higher ranges.
- What is the size of the conductor on which you will perform the measurement ?  
(This parameter determines the jaw size.  
In the price list, the clamps are sorted in an ascending size order.
- What type of signal accepts the instrument on which the clamp will be connected ? (see on page 35)
  - Nature of the signal : AC or DC ?
  - Their ranges ?
  - The impedance of the instrument ?
- **Which type of connector do you want ?**  
Safety sockets, cable + banana plugs or BNC ? etc...
- **Will the clamp be used for measuring power or harmonics ?**  
If so, look at specifications on frequency and phase shift.

**Other important factors to consider :****The MAX. voltage compared to the conductor's GROUND**

Signification of the symbols introduced by the Standard CEI61010-2-032 du 09/2002:



**Nude conductors under dangerous voltage, below 600V**



**Insulated conductors or voltage below 30V MAX. rms**

These symbols stand on each page, in the drawings, near or between the clamp's jaws..

*The clamps **Universal Technic** can fit all your needs !*

This price list is published to guide you in your choice and to facilitate the writing of your orders.

It is only an overview of our production classified by growing order of input current level..

The "Types" are available in A "Range", from which the reference is composed "Range + Extension".

The Extension defines the nature of the "Treatment" of the secondary internal signal.

In order to adapt itself to all the reading equipments, a clamp can deliver a secondary signal under the form of a "Current", an (AC) "alternative Voltage", of a "Current" and an AC "Voltage", or still of a (DC) "continuous Voltage", etc...

**For further informations, do not hesitate to contact us ☎**

In order to deliver quickly a product in conformity with your request, we thank you for formulating like the model below.

Nature of the current to measure Alternating (AC) frequency 50Hz				
Type of clamp	Primary	Secondary	Special output	Colour
M1.UB	25A	2V	Bifilar lead 2m + plugs 4 mm	Blue

## PRICE LIST 2019

Edition 1

Valid from 1 April 2019

### THE AC MICRO CLAMPS

The micro clamps can enclose cables with a max. diameter of 15mm and measure current from 10mA up to 200A\*.

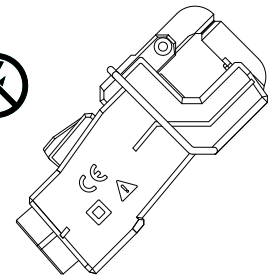
The M1 and M2 can only be used on insulated conductors while the M3 and M4 meet the 600V CAT. III safety level requirements. The longer casing of the M2 and M4 allow space for a PCB, useful for some applications, for example to improve the phase shift for power measurement or rectifying the signal for DC data loggers.

### AC CLAMP-ON CURRENT TRANSFORMERS

Diameter MAX.: 15 mm

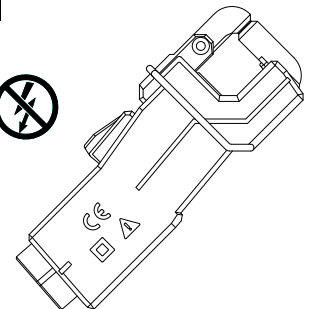
RANGE	M1 Short case (30V CAT I)	1mA...200A* AC	
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AC Input.	AC Current Output	M1	Standard	P.10
		M1.B	Low current special	
	AC Voltage Output	M1.U	Standard	
		M1.UB	Low current special	
	AC Current or Voltage Output	M1.MB		



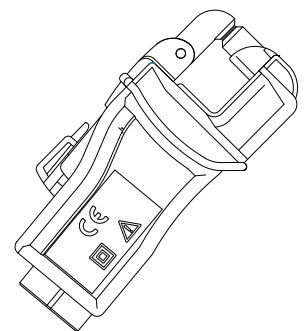
RANGE	M2 Long case (30V CAT I)	10mA...300A* AC	
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AC Input.	AC Current Output	M2	Standard	P.11
		M2.B	Low current special	
	AC Voltage Output	M2.U	Standard	
		M2.UB	Low current special	
	DC Voltage Output	M2.V	Standard	
		M2.VB	Special low current	



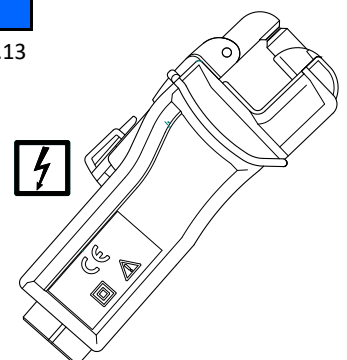
RANGE	M3 Short case (600V CAT III)	10mA...300A* AC	
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AC Input.	AC Current Output	M3	Standard	P.12
		M3.B	Low current special	
	AC Voltage Output	M3.U	Standard	
		M3.UB	Low current special	
		M3.UB5		
		M3.UB5W		
	AC Current or Voltage Output	M3.MB		



RANGE	M4 Long case (600V CAT III)	10mA...300A* AC	
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AC Input.	Output AC current	M4	Standard	P.13
	Output AC Voltage	M4.U	Standard	
		M4.UB	Low current special	
	DC Voltage Output	M4.V	Standard	
		M4.VB	Low current special	



\*Range of possibilities, depend on the transformation ratio chosen.

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### THE AC MIDDLE SIZED CLAMPS

They are divided into three families, the **US**, the **S** and the **SM**, each having its own characteristics.

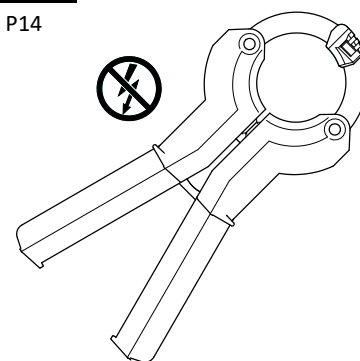
- The **US** can enclose cables of 43mm diameter max and one of their jaws allows a pendulum swing easing the access to conductors. They can only be used on insulated conductors and can measure currents from 500mA to 1000A\*
- The **S** clamps can enclose conductors up to 50mm and measure current from 100mA to 1200A\*. They are a reliable and economic solution for common applications..
- The **SM** clamps can enclose cables with a max diameter of 54mm and measure currents from 1mA to 1400A\*. Their technology and distributed winding improve the accuracy of the measurement.

### AC CLAMP-ON CURRENT TRANSFORMERS

For conductors

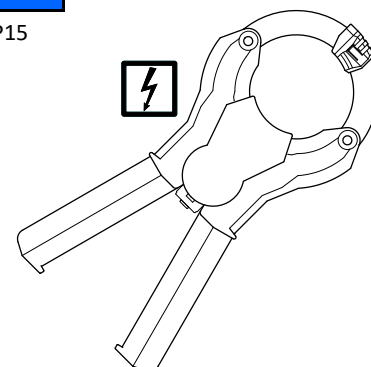
Diameter MAX.: 43 mm

RANGE	US (30V CAT I)	100mA...1000A* AC
AC Input.	AC Current Output	US Standard P14
	AC Voltage Output	US.U Standard US.UB Low current special US.UE
	DC Voltage Output	US.V Standard US.VB Special low current



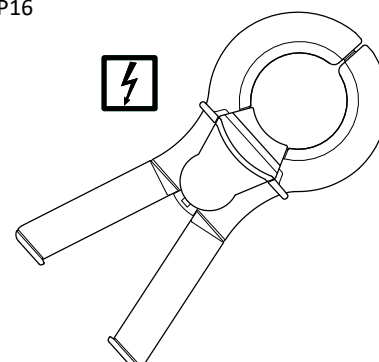
RANGE	S (600V CAT III)	10mA...1200A* AC
AC Input.	AC Current Output	S Standard P15 S.B Low current special
	AC Voltage Output	S.U Standard S.UB Low current special S.UE
	DC Voltage Output	S.V Standard S.VB Low current special

Diameter MAX.: 50 mm



RANGE	SM (600V CAT III)	1mA...1400A* AC
AC Input.	AC Current Output	SM Standard P16 SM.B Low current special
	AC Voltage Output	SM.U Standard SM.UB Low current special SM.UE
	DC Voltage Output	SM.V Standard SM.VB Low current special

Diameter MAX.: 54 mm



\*Range of possibilities, depend on the transformation ratio chosen.

## PRICE LIST 2019

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### THE AC LARGE CLAMPS

They can be divided in six families :

**E16, H16, P16, E32, H32 and P32** depending on the size of their jaws. Their design allows their use on bus bars.

- The **E32, H32 and P32** can measure currents from 1A to 3200A\*. The E32 can enclose conductors with a max diameter of 56mm (100x32 or 120x20), the H32 up to 70mm (100x45 or 124x35) and the P32 up to 80mm (100x58 or 125x47).

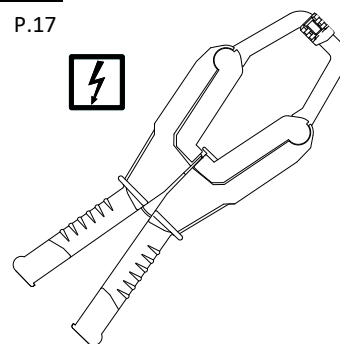
### AC CLAMP-ON CURRENT TRANSFORMERS

Câbles/ Bus Bars (mm)

Ø 56/100x32...120x20

RANGE	E32 (600V CAT III)	1A...3200A* AC
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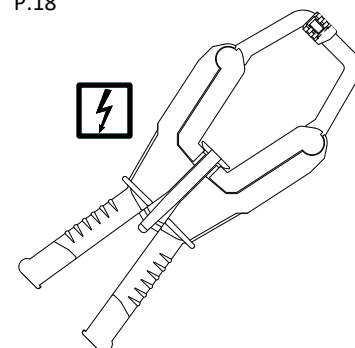
AC Input.	AC current Output	<b>E32</b>	Standard	P.17
	AC Voltage Output	<b>E32.U</b> <b>E32.UE</b>	Standard	
	Special version for leakage current measurement	<b>E32.UEB5</b>	Low current special	
	DC Voltage Output	<b>E32.V</b>	Standard	



1,4 kg

RANGE	H32 (600V CAT III)	1A...3200A* AC
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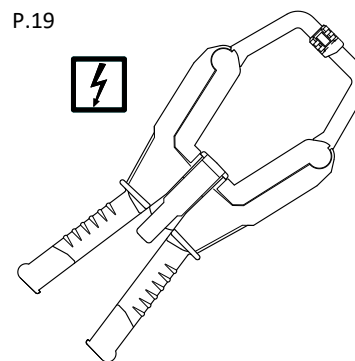
AC Input.	AC current Output	<b>H32</b> <b>H32.B</b> <b>H32.X</b>	Standard Low current special	P.18
	AC Voltage Output	<b>H32.U</b> <b>H32.UE</b>	Standard	
	Special version for leakage current measurement	<b>H32.UEB5</b>		
	DC Voltage Output	<b>H32.V</b>	Standard	



1,6 kg

RANGE	P32 (600V CAT III)	1A.....3200A* AC
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AC Input.	AC current Output	<b>P32</b> <b>P32.X</b> <b>P32.B</b>	Standard Low current special	P.19
	AC Voltage Output	<b>P32.U</b> <b>P32.UE</b>	Standard	
	Special version for leakage current measurement	<b>P32.UEB5</b>	Low current special	
	DC Voltage Output	<b>P32.V</b>	Standard	



1,8 kg

\*Range of possibilities, depend on the transformation ratio chosen.

**PRICE LIST 2019**

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**THE AC LARGE CLAMPS**

They can be divided in six families :

**E16, H16, P16, E32, H32 and P32** depending on the size of their jaws. Their design allows their use on bus bars.

- The **E16, H16 and P16** can measure currents from 5A to 1600A\* and, with their greater section magnetic circuit, can deliver 5A at secondaries. The E16 can enclose conductors up to 54mm (100x30 or 120x20 for bus bars), the H16 up to 67mm (112x38 or 122x30) and the P16 up to 80mm (100x57 or 120x48).

◆ The **EHP16** serie allow thanks to larger section of their magnetic circuit a better accuracy for 5A current output as well as an improved immunity from the measured environment perturbations ◆

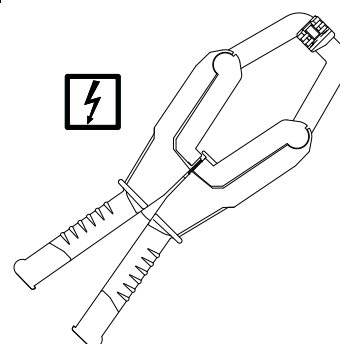
**AC CLAMP-ON CURRENT TRANSFORMERS**

RANGE	E16 (600V CAT III)	1A...1600A* AC
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AC Input.	AC Current Output	<b>E16</b> Standard P.20
	AC Voltage Output	<b>E16.U</b> Standard <b>E16.UE</b>
	DC Voltage Output	<b>E16.V</b>

Cables/ Bus Bars (mm)

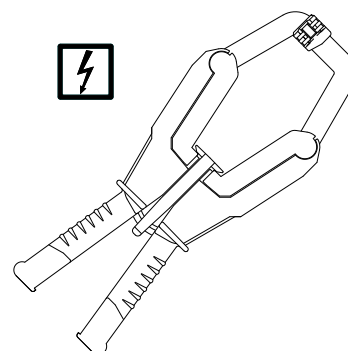
Ø 54/100x30...120x20



RANGE	H16 (600V CAT III)	1A...1600A* AC
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AC Input.	AC Current Output	<b>H16</b> Standard P.21
	AC Voltage Output	<b>H16.U</b> Standard <b>H16.UE</b>
	DC Voltage Output	<b>H16.V</b>

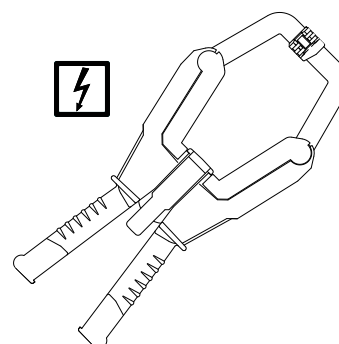
Ø 67/100x44...120x35



RANGE	P16 (600V CAT III)	1A....1600A* AC
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AC Input.	AC Current Output	<b>P16</b> Standard P.22
	AC Voltage Output	<b>P16.U</b> Standard <b>P16.UE</b>
	DC Voltage Output	<b>P16.V</b>

Ø 80/100x56...120x48



\*Range of possibilities, depend on the transformation ratio chosen.

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### THE HALL EFFECT CLAMPS (AC/DC)

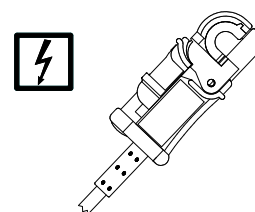
We offer a range of **Hall effect** clamps, for DC current measurements.

These models come in two versions, internal power supply (battery) and external (from the measuring device or a power supply).

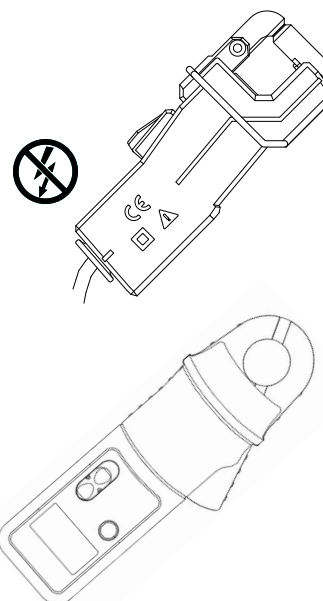
- The **MX** is the latest novelty developed by Universal Technic in 2017. This small Hall effect clamp allow measures of low current DC and AC (up to 50kHz) on small sized conductors (8mm max). It comes with two different transformation ratios, 20A/1V and 100A/1V and an automatic zero setting.
- The **M2.1C**, used only on insulated conductors, can measure currents from 5A up to 300A\* DC. Only available in the external alimantation version, they allow measures on cables with a max diameter of 15mm.
- The **SC** can measure currents from 5A to 2000A\* on conductors of max. 50mm diameters.

### AC-DC CLAMP-ON CURRENT (Hall effect)

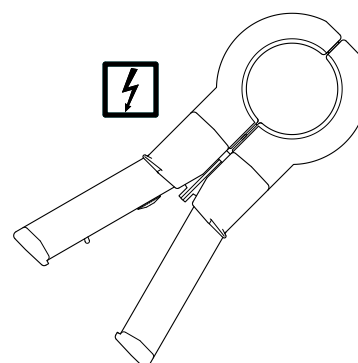
Diameter MAX.: 8 mm



Diameter MAX.: 15 mm



Diameter MAX.: 50 mm



RANGE	MX (1000V CAT III)	100mA...120A* AC-DC
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AC-DC Input AC-DC Voltage Output MX P.23

RANGE	M2.1C (30V CAT I)	10mA...300A* AC-DC
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AC-DC Input AC-DC Voltage Output M2.1C P.23

RANGE	HE (300V CAT III)	AC-DC
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Open Loop P.24

Closed Loop

TRUE RMS

RANGE	SC (600V CAT III)	1A...2000A* AC-DC
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AC-DC Input AC-DC Voltage Output S.C P.25

S.1C

S.2C

S.3C

\*Range of possibilities, depend on the transformation ratio chosen.

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### THE HALL EFFECT CLAMPS (AC/DC)

We offer a range of **Hall effect** clamps, for DC current measurements.

These models come in two versions, internal power supply (battery) and external (from the measuring device or a power supply).

- The **HC** allow measures on 72mm max. diameter conductors (100x53 or 127x43). They can measure current from 10A up to 5000A\*.
- The **PC** clamps can measure currents from 10A to 7500A\* on conductors with a max. diameter of 80mm (100x64 and 122x54).
- The **C104** current sensors can measure from 50A up to 15 000A on bus bars (103x103mm). They are mainly used in rail traction applications.

#### AC-DC CLAMP-ON CURRENT (Hall effect)

RANGE	HC (600V CAT III)	1A...5000A* AC-DC
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AC-DC Input

H20.1C

P.26

H40.1C

H50.1C

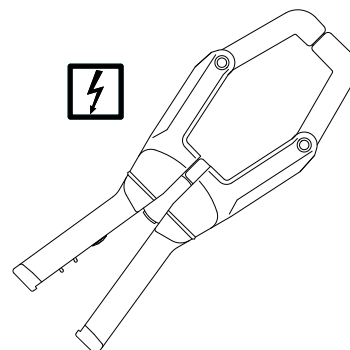
AC-DC Voltage Output

H20.3C

H40.3C

H50.3C

Ø 72/100x53...127x43



RANGE	PC (600V CAT III)	1A...7500A* AC-DC
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AC-DC Input

P20.1C

P.27

P40.1C

P50.1C

P75.1C

AC-DC Voltage Output

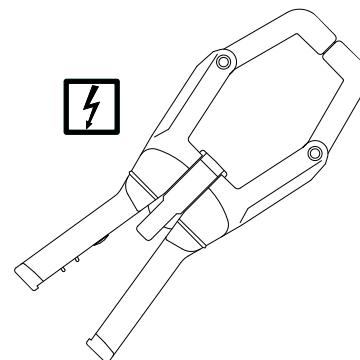
P20.3C

P40.3C

P50.3C

P75.3C

Ø 83/100x64...122x54



1,8 kg

For the AC-DC clamps, transformation ratio is expressed at maximum value.

#### TRANSDUCERS

RANGE	C104 (30V CAT I)	200A...15000A
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AC-DC Input

Voltage Output

C 104.CT

P.28

Supply : 36V to 130Vdc

Voltage Output

C 104.AS

Supply : 230V eff. 50-60Hz

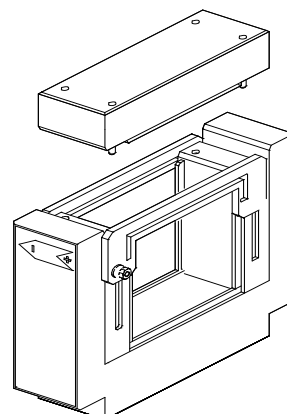
Voltage Output

C 104.AT

Supply : 230V eff. 50-60Hz

Cables/ Bus Bars (mm)

Ø 100/104x104



\*Range of possibilities, depend on the transformation ratio chosen.



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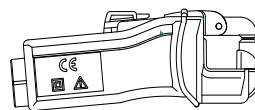
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### SPECIAL CLAMPS

Diameter MAX.: 15 mm

#### M4 TOR (ON-OFF control)

P.29



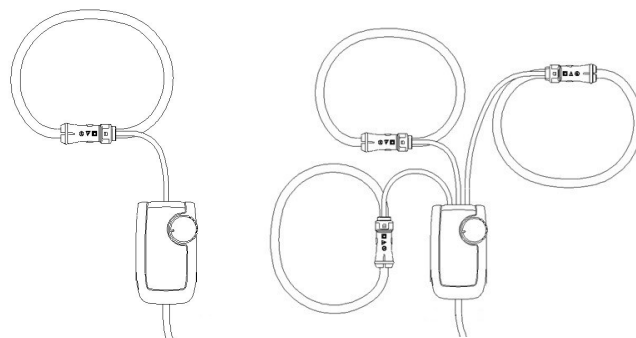
#### FLEXIBLE

Flexible AC Current Probe "U-Flex Micro Series"

P.30

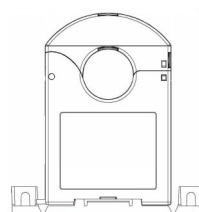
Flexible AC Current Probe "U-Flex Series"

P.31



AC/DC Split Core Transducer **SCT** Series

P.32



### MEASUREMENT PLUGS

#### SECURA® - ESSAILEC®

##### Measurement plugs for SECURA system

Current 1 phase

P.33

Current 4 circuits

Accessories

##### Measurement plugs for ESSAILEC system

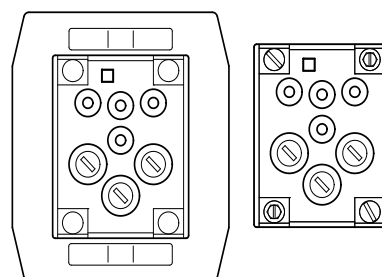
Current 1 phase

P.33

Current 4 circuits

Voltage 3 Phases

Accessories



### GENERALITIES

#### CALIBRATION CERTIFICATE ( B.N.M or UKAS)

For all the clamps

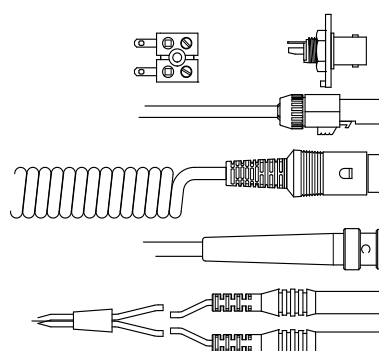
P.34

#### Output connections, Options, Special outputs

Output connections

P.35

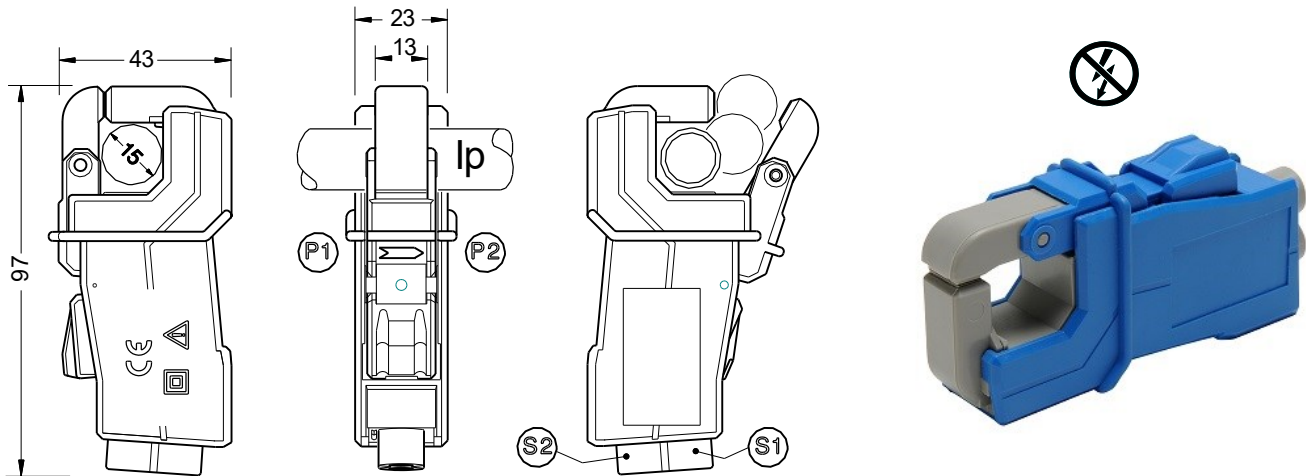
Weight and packing



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**AC MICROCLAMP-ON CURRENT TRANSFORMERS M1**
**DIMENSIONS (mm)**


The M1 has been designed for use with multimeters, recorders, safety testers etc. for accurate non intrusive measurement of AC current.

Using the latest transformer technology, this probe can measure currents from 1mA to 200A over a frequency range of 40Hz to 10kHz.

**30 V<sub>RMS</sub>, Category I, Pollution Degree 2**

Use of the probe on uninsulated conductors is limited to 30 V AC<sub>RMS</sub> or DC and frequencies below 1kHz.

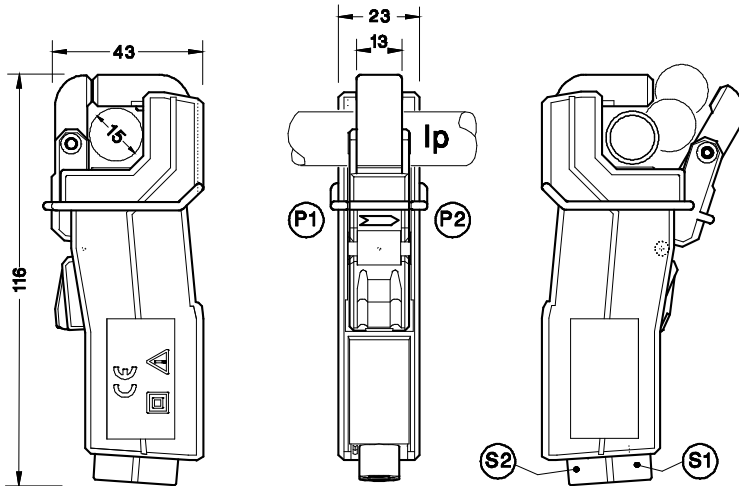
You will find in the table below a few examples of the possibilities.

Customization upon request → **Same price !!!**

RANGE      M1      1 mA .....200A AC							
Part number	TYPES	RATIO			Output connections	Colour	Price (€)
♦      AC Current Output							
M001	M1	200A	/	200mA	Safety sockets Ø4 mm	Grey	77
M009		100A	/	1A			80
M232		200A	/	1A			81
M1070	M1.B	100A	/	100mA			104
M1240		10A	/	4mA max			115
♦      AC Voltage Output							
M008	M1.U	200A	/	2Vac	Safety sockets Ø4 mm	Blue	83
M3802		200A	/	10Vac			84
M234	M1.UB	1A	/	1Vac			133
M235		5A	/	1Vac			127
M243		20A	/	3Vac			
M248		50A	/	5Vac			
M004		10A	/	1Vac			
♦      AC Current or Voltage Output							
M891	M1.MB	300A	/	300mA	Safety sockets Ø4 mm	Green	130
Alls the clamps can be designed by us in order to inject signals on cables. <u>Applications</u> : Cable fault location, current flow, cables identification, ...							

## AC MICROCLAMP-ON CURRENT TRANSFORMERS M2

### DIMENSIONS (mm)



The M2 has been designed for use with multimeters, recorders, safety testers etc. for accurate non intrusive measurement of AC current.

Using the latest transformer technology, this probe can measure currents from 10mA to 300A over a frequency range of 40Hz to 10kHz.

**30 V<sub>RMS</sub>, Category I, Pollution Degree 2**

Use of the probe on uninsulated conductors is limited to 30 V AC<sub>RMS</sub> or DC and frequencies below 1kHz.

You will find in the table below a few examples of the possibilities.

Customization upon request → **Same price !!!**

RANGE M2 10 mA .....300A							
Part number	TYPES	RATIO		Output connections		Colour	Price (€)
♦ AC Current Output							
M249	M2	200A	/	200mA	Safety sockets Ø4 mm	Grey	98
M252		100A	/	1A			102
M253		200A	/	1A			126
M3709	M2.B	100A	/	100mA			
♦ AC VoltageOutput							
M254	M2.U	200A	/	2Vac	Safety sockets Ø4 mm	Blue	102
M279		50-100-200A	/	1Vac			154
M280		50-100-200A	/	2Vac			
M270	M2.UB	50A	/	5Vac			148
M256		1A	/	1Vac			157
M281		5-10-20A	/	1Vac			181
M282		25-50-100A	/	1Vac			
♦ DC Voltage Output							
M272	M2.V	200A	/	2Vdc	Safety sockets Ø4 mm	Blue	121
M273	M2.VB	25A	/	1Vdc			165
M3677	M2.V	50-100-200A	/	1Vdc	2m cable + Ø4 mm plugs		166
M2258	M2.VB	50-100-200A	/	1Vdc	Safety sockets Ø4 mm		189

- For all the voltage output, other values are available between 0,2V and 5V → **Please contact us** ☎
- For all the voltage output, all kind of cables and ends are available.

**WARNING:** The clamps with voltage output are calibrated on devices with a 1MΩ impedance.

For any lower impedance please contact us ☎

“Special outputs”, Cables and leads with choice of the ends, see

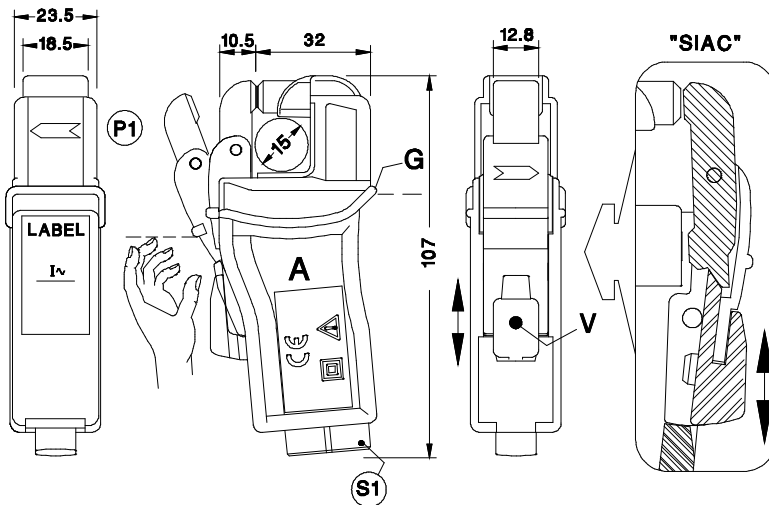
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options

Other colours - Other ratios : **Contact us** ☎

## AC MICROCLAMP-ON CURRENT TRANSFORMERS M3

### DIMENSIONS (mm)



The M3 has been designed for use with multimeters, recorders, safety testers etc. for accurate non intrusive measurement of AC current.

Using the latest transformer technology, this probe can measure currents from 1mA to 200A over a frequency range of 40Hz to 10kHz.

**600 V<sub>RMS</sub>, Category III, Pollution Degree 2**

Use of the probe on uninsulated conductors is limited to 600 V AC<sub>RMS</sub> or DC and frequencies below 1kHz.

You will find in the table below a few examples of the possibilities.

Customization upon request → **Same price !!!**

RANGE		M3		1mA .....200A			
Part number	TYPES	RATIO		Output connections		Colour	Price (€)
♦ AC Current Output							
M1650	M3	200A	/	200mA	Safety sockets Ø4 mm	Grey	100
M3126		200A	/	1A			102
M3772	M3.B	100A	/	100mA			120
M3228		10A	/	4mA max			140
♦ AC Voltage Output AC Voltage							
M3138	M3.U	100A	/	1Vac	Safety sockets Ø4 mm	Blue	103
M3139		200A	/	1Vac			182
M3140	M3.UB	1A	/	1Vac			175
M3145		20A	/	2Vac			
M3147		30A	/	3Vac			
M3153		50A	/	5Vac			
♦ AC Voltage Output , special types (Contact us ☎)							
M3865	M3.UB5	5A	/	1Vac	Safety sockets Ø4 mm		188
M3792	M3.UB5W	5A	/	1Vac	BNC	Blue	230
.UB5W special treatment to lower phase shift (Contact us ☎)							
♦ AC Current or Voltage Output							
M3154	M3.MB	300A	/	300mA	Safety sockets Ø4 mm	Green	190
Alls the clamps can be designed by us in order to inject signals on cables.							
Applications: Cable fault location, current flow, cables identification, ...							

**The CLAMPS "M3" are equipped with our patented system anti short-circuit SIAC®**

"Special outputs", Cables and leads with choice of the ends, see

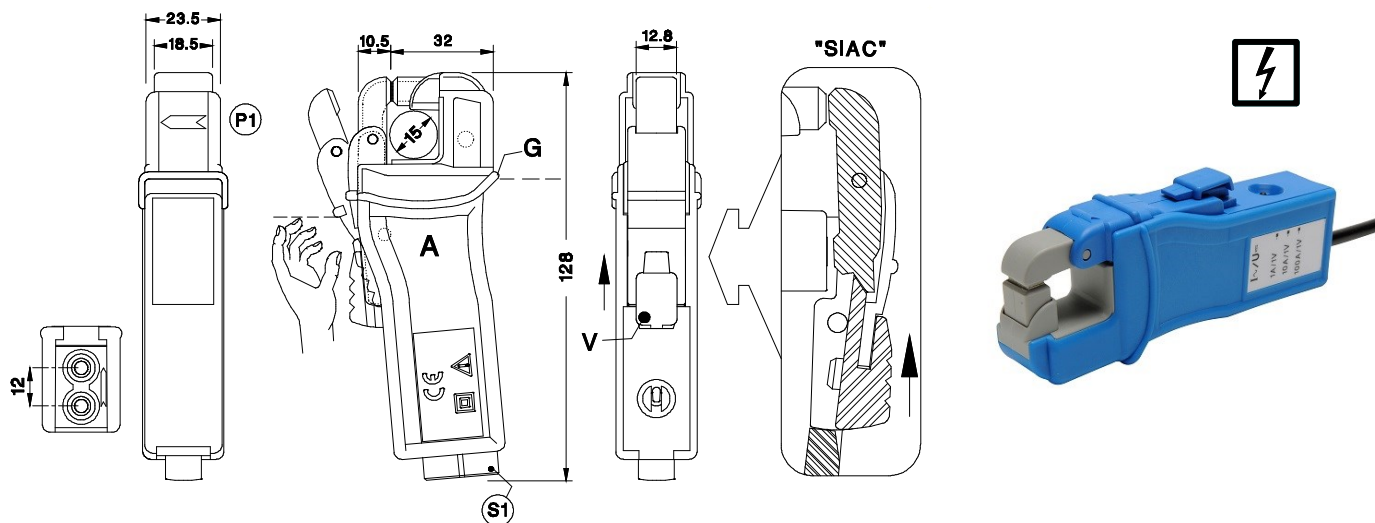
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options

Other colours - Other ratios : Contact us ☎

## AC MICROCLAMP-ON CURRENT TRANSFORMERS M4

### DIMENSIONS (mm)



The M4 has been designed for use with multimeters, recorders, safety testers etc. for accurate non intrusive measurement of AC current.

Using the latest transformer technology, this probe can measure currents from 10mA to 300A over a frequency range of 40Hz to 10kHz.

**600 V<sub>RMS</sub>, Category III, Pollution Degree 2**

Use of the probe on uninsulated conductors is limited to 600 V AC<sub>RMS</sub> or DC and frequencies below 1kHz.

You will find in the table below a few examples of the possibilities.

Customization upon request → **Same price !!!**

RANGE		M4		10mA .....300A				
Part number	TYPES	RATIO		Output connections		Colour	Price (€)	
♦ AC Current Output								
M3158	M4	100A	/	1A	Safety sockets Ø4 mm	Grey	113	
M3157		200A	/	200mA				
♦ AC Voltage Output								
M3160	M4.U	200A	/	2Vac	Safety sockets Ø4 mm	Blue	119	
M4436		20-200A	/	2Vac	Shielded coaxial cable + BNC connector		212	
M3267		50-100-200A	/	1Vac	Safety sockets Ø4 mm		186	
M3161	M4.UB	1A	/	1Vac			210	
M3171		40A	/	4Vac			202	
M3186		25-50-100A	/	1Vac			204	
♦ DC Voltage Output								
M3176	M4.V	200A	/	2Vdc	Safety sockets Ø4 mm	Blue	151	
M3305		50-100-200A	/	1Vdc			210	
M3179	M4.VB	100A	/	1Vdc			192	
M4331		25-50-100A	/	1Vdc			241	

**The CLAMPS "M4" are equipped with our patented system anti short-circuit SIAC ®**

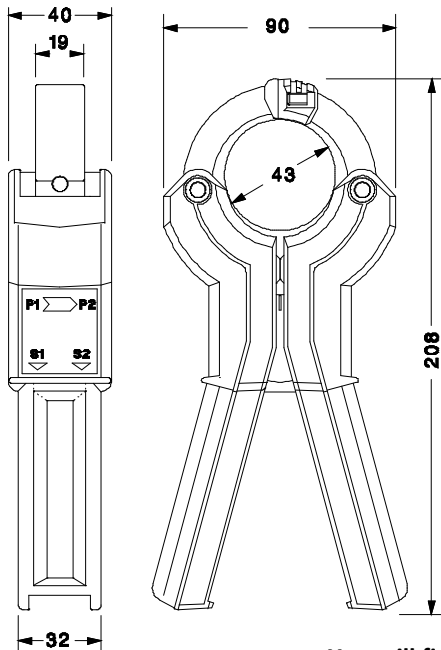
## PRICE LIST 2019

Edition 1

Valid from 1 April 2019

### AC CLAMPS-ON CURRENT TRANSFORMERS US

DIMENSIONS (mm)



The US current probe has been designed for use with multimeters, recorders, power analysers, safety testers etc. for accurate non intrusive measurement of AC current.

Using the latest transformer technology, the US can measure currents from 100mA to 1000A over a frequency range of 30Hz to 10kHz.

**30 V<sub>RMS</sub>, Category I, Pollution Degree 2**

Use of the probe on uninsulated conductors is limited to 30 V AC<sub>RMS</sub> or DC and frequencies below 1kHz

You will find in the table below a few examples of the possibilities.

Customization upon request → **Same price !!!**

RANGE		US					100mA .....1000A	
Part number	TYPES	RATIO		Output connections		Colour	Price (€)	
♦ AC Current Output								
U283	US	1000A	/	1A	Safety sockets Ø4 mm	Grey	132	
U285		100A	/	1A			140	
U298		200A	/	2A			148	
U309		300A	/	3A			150	
U320		500A	/	5A			156	
U341		100-500-1000A	/	1A			179	
U352		125-250-500A	/	5A			197	
♦ AC Voltage Output								
U334	US.U	500A	/	5Vac	Safety sockets Ø4 mm	Blue	206	
U358		250-500-1000A	/	1Vac			271	
U1202	US.UB	1A	/	1Vac			230	
U1584		10-100A	/	1Vac			301	
U1321	US.UE	100A	/	1Vac			148	
U857		1000A	/	1Vac				
♦ DC Voltage Output <i>Self-fed clamps (B)</i>								
U888	US.V	100A	/	1Vdc	Safety sockets Ø4 mm	Blue	269	
U360		250-500-1000A	/	1Vdc			293	
	US.VB	10A	/	1Vdc			309	
		25-50-100A	/	1Vdc			372	

Alls the clamps can be designed by us in order to inject signals on cables.

Applications: Cable fault location, current flow, cables identification, ...

**(B)** secondary voltage output is inverted and filtered using diodes and capacitor.

**WARNING:** The clamps with voltage output are calibrated on devices with a 1MΩ impedance.

For any lower impedance please contact us ☎

- Spare jaw protectors for US and NS types



(10 for 13€)

"Special outputs", Cables and leads with choice of the ends, see

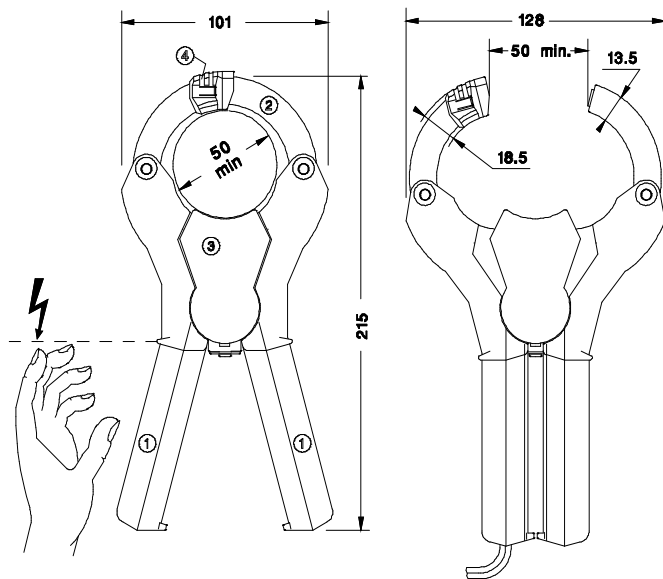
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options

Other colours - Other ratios : *Contact us* ☎

### AC CLAMPS-ON CURRENT TRANSFORMERS S

DIMENSIONS (mm)



The S current probe has been designed for use with multimeters, recorders, power analysers, safety testers etc. for accurate non intrusive measurement of AC current.

Using the latest transformer technology, the S can measure currents from 100mA to 1200A over a frequency range of 40Hz to 5kHz.

**600 V<sub>RMS</sub>, Category III, Pollution Degree 2**

Use of the probe on uninsulated conductors is limited to 600 V AC<sub>RMS</sub> or DC and frequencies below 1kHz.

You will find in the table below a few examples of the possibilities.

Customization upon request → **Same price !!!**

S 100mA .....1200A									
RANGE		TYPES		RATIO		Output connections		Colour	Price (€)
♦ AC Current Output									
S455	S	1000A	/	1A	Safety sockets Ø4 mm	Grey	146		
S461		200A	/	1A			161		
S492		300A	/	5A			189		
S521		100-500-1000A	/	1A			204		
S538		250-500-1000A	/	5A			220		
S4437	S.B	500A	/	0.5A			211		
♦ AC Voltage Output									
S503	S.U	500A	/	5Vac	Safety sockets Ø4 mm	Blue	220		
S542		250-500-1000A	/	1Vac			295		
S893	S.UB	1A	/	1Vac			246		
S2189		10-100-1000A	/	1Vac			300		
S507	S.UE	100A	/	1Vac			170		
S028		1000A	/	1Vac					
♦ DC Voltage Output <i>Self-fed clamps (B) see page 14</i>									
S517	S.V	1000A	/	1Vdc	Safety sockets Ø4 mm	Blue	290		
S544		250-500-1000A	/	1Vdc			325		
	S.VB	10A	/	1Vdc			328		
		25-50-100A	/	1Vdc			364		

Alls the clamps can be designed by us in order to inject signals on cables.

Applications: Cable fault location, current flow, cables identification, ...

**WARNING:** The clamps with voltage output are calibrated on devices with a 1MΩ impedance.

For any lower impedance please contact us ☎

● Spare protectors "Anti short-circuits" for the Range S



(10 for 13€)

"Special outputs", Cables and leads with choice of the ends, see

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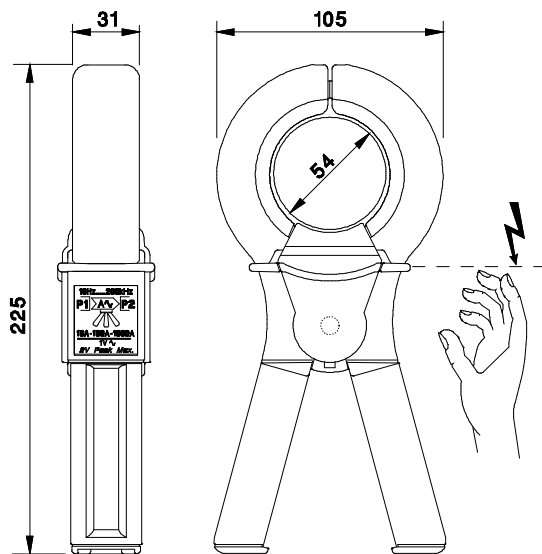
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**PRICE LIST 2019**

Edition 1

Valid from 1 April 2019

**DIMENSIONS (mm) AC CLAMPS-ON CURRENT TRANSFORMERS SM**


The SM current probe has been designed for use with multimeters, recorders, power analysers, safety testers etc. for accurate non intrusive measurement of AC current.

Using the latest transformer technology, the SM can measure currents from 1mA to 1400A over a frequency range of 30Hz to 10kHz.

**600 V<sub>RMS</sub>, Category III, Pollution Degree 2**

Use of the probe on uninsulated conductors is limited to 600 V AC<sub>RMS</sub> or DC and frequencies below 1kHz.

You will find in the table below a few examples of the possibilities.

Customization upon request → **Same price !!!**

RANGE SM 1mA .....1400A							
Part number	TYPES	RATIO			Output connections	Colour	Price (€)
♦ AC Current Output							
SM2086	SM	1000A	/	5A	Safety sockets Ø4 mm	Grey	224
SM2087		100A	/	1A			172
SM2155		100-500-1000A	/	1A			215
SM2169		200-400-800A	/	5A			240
SM2274	SM.B	1000A	/	1A			330
♦ AC Voltage Output							
SM2130	SM.U	500A	/	5Vac	Safety sockets Ø4 mm	Blue	229
SM3097		200-500-1000A	/	5Vac			259
SM2174		250-500-1000A	/	1Vac			273
SM2184	SM.UB	(1) 1A	/	1Vac			308
SM2457		1-100-1000A	/	1Vac			354
SM2149	SM.UE	500A	/	1Vac			
(1) 25A Max (100A-1 mn/30 mn). Detect 1mA							
♦ DC Voltage Output Self-fed clamps (B) see page 14							
SM2151	SM.V	100A	/	1Vdc	Safety sockets Ø4 mm	Blue	302
SM2176		250-500-1000A	/	1Vdc			336
SM4019	SM.VB	100A	/	1Vdc			350
SM4345		25-50-100A	/	1Vdc			393
Alls the clamps can be designed by us in order to inject signals on cables.							
Applications: Cable fault location, current flow, cables identification, ...							

**Those clamps are equipped with the Internal protection system anti short-circuit SIAC®**

**WARNING:** The clamps with voltage output are calibrated on devices with a 1MΩ impedance.

For any lower impedance please contact us ☎

"Special outputs", Cables and leads with choice of the ends, see

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Other colours - Other ratios : *Contact us* ☎



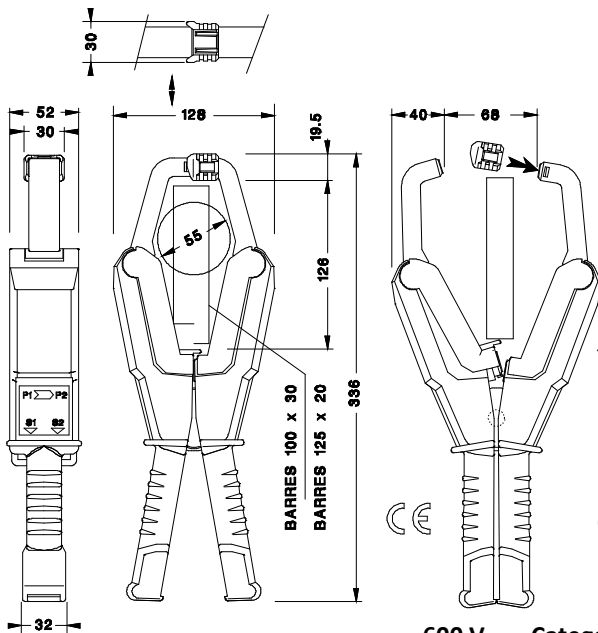
**PRICE LIST 2019**

Edition 1

Valid from 1 April 2019

**AC CLAMP-ON CURRENT TRANSFORMERS E32**

DIMENSIONS (mm)



The E32 current probe has been designed for use with multimeters, recorders, power analysers, safety testers etc. for accurate non intrusive measurement of AC current.

Using the latest transformer technology, the E32 can measure currents from 1A to 3200A over a frequency range of 30Hz to 10kHz.

600 V<sub>RMS</sub>, Category III, Pollution Degree 2

Use of the probe on uninsulated conductors is limited to 600 V AC<sub>RMS</sub> or DC and frequencies below 1kHz.

You will find in the table below a few examples of the possibilities.

Customization upon request → **Same price !!!**

RANGE		E32		1A .....3200A					
Part number		TYPES		RATIO		Output connections		Colour	Price (€)
♦ AC Current Output									
E634		E32	1000A	/	1A	Safety sockets Ø4 mm	Grey	264	
E674	(1)		1000-2000-3000A	/	1A			277	
E641			2000A	/	2A			264	
E642			3000A	/	3A				
E676	(1)		500-1000-1500A	/	5A				286
♦ AC Voltage Output (Different connection outputs availables: Contact us ☎)									
E660		E32.U	1500A	/	5Vac	Safety sockets Ø4 mm	Blue	336	
E686			1000-2000-3000A	/	1Vac			370	
E689			500-1000-2000A	/	2Vac			370	
E666		E32.UE	3000A	/	1Vac			286	
E4197			3000A	/	3Vac				
♦ Special Version for leak current measurement									
		E32.UEB5	1A	/	1Vac	Safety sockets Ø4 mm	Blue	326	
WARNING : 50A Max. (100A~ - 1mn)									
♦ DC Voltage Output									
E668		E32.V	2000A	/	1Vdc	Safety sockets Ø4 mm	Blue	363	
E695			500-1500-3000A	/	1Vdc			379	
E699			1000-2000-3000A	/	2Vdc				

Reminder regarding the **outputs in continuous voltage (DC)**, there is a time constant.

(1) for multi ranges probes, range select is done by switching between the 4 output sockets. Therefore no other optimal output is possible for these probes. More than 100 POSSIBLE COMBINATIONS.

● Spare protectors "Anti short-circuits" SIAC® for the Ranges E32, H32 and P32



(10 for 30€)

**WARNING:** The clamps with voltage output are calibrated on devices with a 1MΩ impedance.

For any lower impedance please contact us ☎

"Special outputs", Cables and leads with choice of the ends, see

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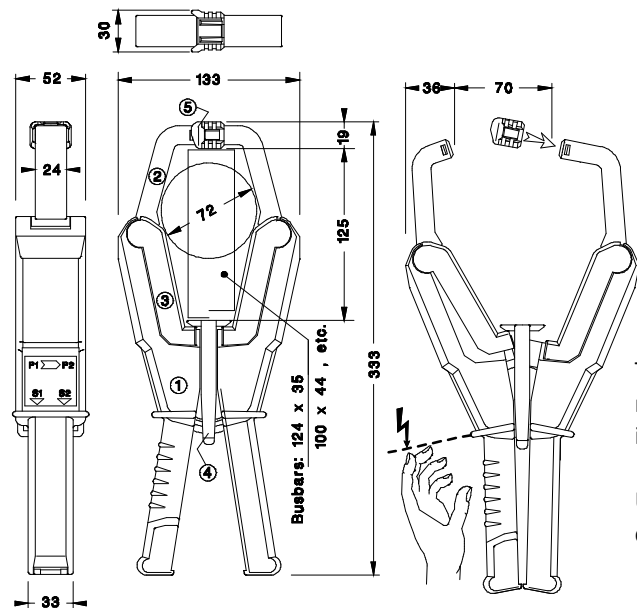
Other colours - Other ratios : Contact us ☎

## PRICE LIST 2019

Edition 1

Valid from 1 April 2019

### DIMENSIONS (mm) AC CLAMP-ON CURRENT TRANSFORMERS H32



The H32 current probe has been designed for use with multimeters, recorders, power analysers, safety testers etc. for accurate non intrusive measurement of AC current.

Using the latest transformer technology, the H32 can measure currents from 1A to 3200A over a frequency range of 30Hz to 10kHz.

600 V<sub>RMS</sub>, Category III, Pollution Degree 2

Use of the probe on uninsulated conductors is limited to 600 V AC<sub>RMS</sub> or DC and frequencies below 1kHz.

You will find in the table below a few examples of the possibilities.

Customization upon request → **Same price !!!**

RANGE		H32		1A .....3200A			
Part number	TYPES	RATIO		Output connections		Colour	Price (€)
♦ AC Current Output							
	H32	3000A	/	300mA	Safety sockets Ø4 mm	Grey	410
H710		3000A	/	1A			343
H704		1000A	/	1A			384
H746		1000-2000-3000A	/	1A			
H751		1000-1500-3000A	/	5A			
NOTE: for multi ranges probes, range select is done by switching between the 4 output sockets. Therefor no other optimal output is possible for these probes.							
♦ AC Voltage Output (Different connection outputs availables: Contact us ☎)							
H733	H32.U	2500A	/	5Vac	Safety sockets Ø4 mm	Blue	384
H755		500-1000-2000		1Vac			465
H759		1500-2000-3000A	/	1Vac			466
H764		1000-2000-3000A	/	2Vac			364
H735	H32.UE	1000A	/	1Vac			
H737		3000A	/	1Vac			
♦ Special Version for leak current measurement							
	H32.UEB5	1A	/	1Vac	Safety sockets Ø4 mm	Blue	490
WARNING : 50A Max. (100A~ - 1mn)							
♦ DC Voltage Output							
H739	H32.V	1000A	/	1Vdc	Safety sockets Ø4 mm	Blue	393
H766		500-1000-2000A	/	1Vdc			477
H771		1000-2000-3000A	/	2Vdc			
Reminder regarding the <b>outputs in continuous voltage (DC)</b> , there is a time constant.							

● Spare protectors "Anti short-circuits" SIAC ® for the Ranges E32, H32 and P32



(10 for 30€)

**WARNING:** The clamps with voltage output are calibrated on devices with a 1MΩ impedance.

For any lower impedance please contact us ☎

"Special outputs", Cables and leads with choice of the ends, see

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Other colours - Other ratios : Contact us ☎

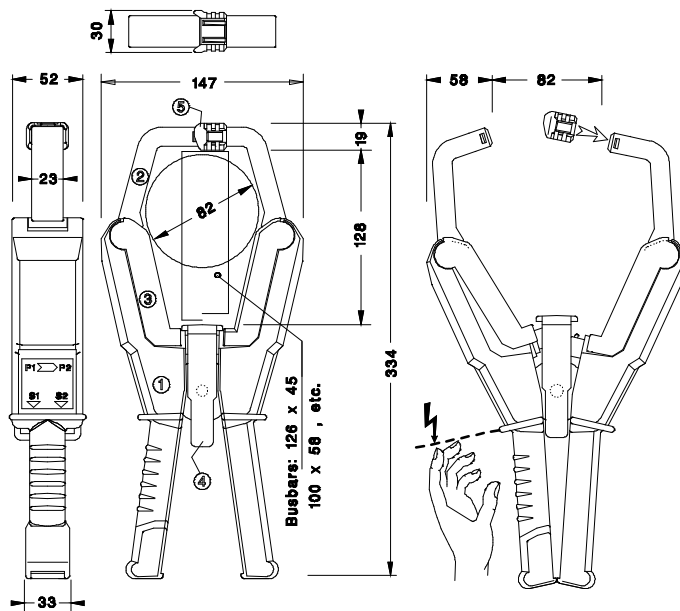
**PRICE LIST 2019**

Edition 1

Valid from 1 April 2019

**AC CLAMP-ON CURRENT TRANSFORMERS P32**

DIMENSIONS (mm)



The P32 current probe has been designed for use with multimeters, recorders, power analysers, safety testers etc. for accurate non intrusive measurement of AC current.

Using the latest transformer technology, the P32 can measure currents from 1A to 3200A over a frequency range of 30Hz to 10kHz.

**600 V<sub>RMS</sub>, Category III, Pollution Degree 2**

Use of the probe on uninsulated conductors is limited to 600 V AC<sub>RMS</sub> or DC and frequencies below 1kHz.

You will find in the table below a few examples of the possibilities.

Customization upon request → **Same price !!!**

RANGE		P32		1A .....3200A			
Part number	TYPES	RATIO		Output connections	Colour	Price (€)	
♦ AC Current Output							
	P32	3000A	/	300mA	Safety sockets Ø4 mm	Grey	460
P825		1000-2000-3000A	/	1A			435
P781		2000A	/	2A			414
P780		3000A	/	1A			
P783		500A	/	5A			
P827		500-1000-1500A	/	5A			435
♦ AC Voltage Output (Different connection outputs available: Contact us ☎)							
P800	P32.U	2000A	/	5Vac	Safety sockets Ø4 mm	Blue	437
P832		500-1000-1500A	/	1Vac			515
P836		1000-2000-3000A	/	1Vac			
P839		500-1000-2000A	/	2Vac			517
P813	P32.UE	1000A	/	1Vac			433
P817		3000A	/	3Vac			
♦ Special Version for leak current measurement							
P3337	P32.UEB5	1A	/	1Vac	Safety sockets Ø4 mm	Blue	626
WARNING : 50A Max. (100A~ - 1mn)							
♦ DC Voltage Output							
P820	P32.V	3000A	/	1Vdc	Safety sockets Ø4 mm	Blue	447
P845		500-1500-3000A	/	1Vdc			527
P849		1000-2000-3000A	/	2Vdc			
Reminder regarding the <b>outputs in continuous voltage (DC)</b> , there is a time constant.							

Reminder regarding the **outputs in continuous voltage (DC)**, there is a time constant.

● Spare protectors "Anti short-circuits" SIAC® for the Ranges E32, H32 and P32



(10 for 30€)

**WARNING:** The clamps with voltage output are calibrated on devices with a 1MΩ impedance.

For any lower impedance please contact us ☎

"Special outputs", Cables and leads with choice of the ends, see

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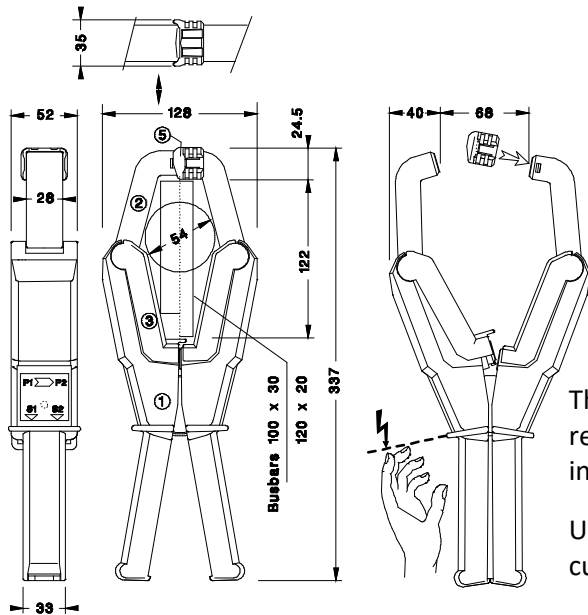
Other colours - Other ratios : Contact us ☎

## PRICE LIST 2019

Edition 1

Valid from 1 April 2019

### DIMENSIONS (mm) AC CLAMPS-ON CURRENT TRANSFORMERS E16



The E16 current probe has been designed for use with multimeters, recorders, power analysers, safety testers etc. for accurate non intrusive measurement of AC current.

Using the latest transformer technology, the E16 can measure currents from 1A to 1600A over a frequency range of 30Hz to 10kHz.

600 V<sub>RMS</sub>, Category III, Pollution Degree 2

Use of the probe on uninsulated conductors is limited to 600 V AC<sub>RMS</sub> or DC and frequencies below 1kHz.

You will find in the table below a few examples of the possibilities.

Customization upon request → **Same price !!!**

RANGE		E16		1A .....1600A			
Part number	TYPES	RATIO		Output connections		Colour	Price (€)
♦ AC Current Output							
E037	E16	300A	/	1A	Safety sockets Ø4 mm	Grey	269
E060		1500A	/	5A			
E046		1500A	/	1.5A			276
E107		500-1000-1500A	/	1A			
E110		100-500-1000A	/	5A			
NOTE: for multi ranges probes, range select is done by switching between the 4 output sockets. Therefor no other optimal output is possible for these probes.							
♦ AC Voltage Output (Different connection outputs availables: Contact us ☎)							
E073	E16.U	600A	/	5Vac	Safety sockets Ø4 mm	Blue	331
E118		100-500-1000A	/	1Vac			384
E122		500-1000-1500A	/	1Vac			
E079	E16.UE	1000A	/	1Vac			289
E086		1500A	/	1.5Vac			
♦ DC Voltage Output							
E092	E16.V	1000A	/	1Vdc	Safety sockets Ø4 mm	Blue	342
E127		250-500-1000A	/	1Vdc			385
E128		250-500-1000A	/	2Vdc			
Alls the clamps can be designed by us in order to inject signals on cables.							
Applications: Cable fault location, current flow, cables identification, ...							

● Spare protectors "Anti short-circuits" SIAC® for the Ranges E16, H16 and P16



(10 for 30€)

**WARNING:** The clamps with voltage output are calibrated on devices with a 1MΩ impedance.

For any lower impedance please contact us ☎

"Special outputs", Cables and leads with choice of the ends, see

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Other colours - Other ratios : Contact us ☎

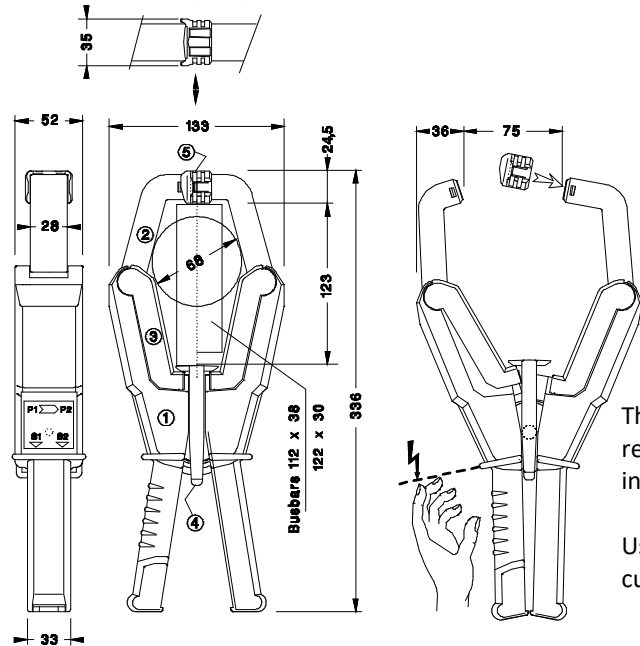
**PRICE LIST 2019**

Edition 1

Valid from 1 April 2019

**AC CLAMP-ON CURRENT TRANSFORMERS H16**

DIMENSIONS (mm)



The H16 current probe has been designed for use with multimeters, recorders, power analysers, safety testers etc. for accurate non intrusive measurement of AC current.

Using the latest transformer technology, the H16 can measure currents from 1A to 1600A over a frequency range of 30Hz to 10kHz.

**600 V<sub>RMS</sub>, Category III, Pollution Degree 2**

Use of the probe on uninsulated conductors is limited to 600 V AC<sub>RMS</sub> or DC and frequencies below 1kHz.

You will find in the table below a few examples of the possibilities.

Customization upon request → **Same price !!!**

RANGE		H16		1A .....1600A			
Part number	TYPES	RATIO		Output connections		Colour	Price (€)
♦ AC Current Output							
H140	H16	600A	/	1A	Safety sockets Ø4 mm	Grey	326
H146		1500A	/	1.5A			332
H154		500A	/	5A			326
H190		100-500-1000A	/	1A			356
H210		500-1000-1500A	/	5A			
NOTE: for multi ranges probes, range select is done by switching between the 4 output sockets. Therefor no other optimal output is possible for these probes.							
♦ AC Voltage Output (Different connection outputs availables: Contact us ☎)							
H164	H16.U	200A	/	5Vac	Safety sockets Ø4 mm	Blue	364
H217		500-1000-1500A	/	1Vac			438
H218		250-500-1000A	/	2Vac			
H175	H16.UE	1000A	/	1Vac			352
H182		1500A	/	1.5Vac			
♦ DC Voltage Output							
H1422	H16.V	1000A	/	1Vdc	Safety sockets Ø4 mm	Blue	369
H1426		250-500-1000A	/	1Vdc			447
H1427		250-500-1000A	/	2Vdc			
Alls the clamps can be designed by us in order to inject signals on cables.							
<u>Applications:</u> Cable fault location, current flow, cables identification, ...							

● Spare protectors "Anti short-circuits" SIAC® for the Ranges E16, H16 and P16



(10 for 30€)

**WARNING:** The clamps with voltage output are calibrated on devices with a 1MΩ impedance.

For any lower impedance please contact us ☎

"Special outputs", Cables and leads with choice of the ends, see

page: 35

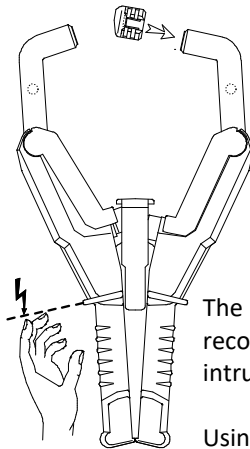
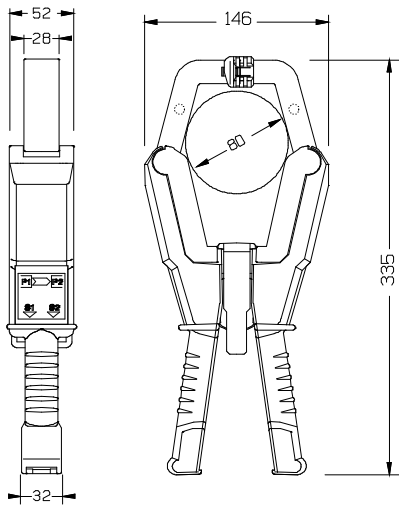
options

Other colours - Other ratios : Contact us ☎

**PRICE LIST 2019**

Edition 1

Valid from 1 April 2019

**AC CLAMP-ON CURRENT TRANSFORMERS P16**
**DIMENSIONS (mm)**


The P16 current probe has been designed for use with multimeters, recorders, power analysers, safety testers etc. for accurate non intrusive measurement of AC current.

Using the latest transformer technology, the P16 can measure currents from 1A to 1600A over a frequency range of 30Hz to 10kHz.

**600 V<sub>RMS</sub>, Category III, Pollution Degree 2**

Use of the probe on uninsulated conductors is limited to 600 V AC<sub>RMS</sub> or DC and frequencies below 1kHz.

You will find in the table below a few examples of the possibilities.

Customization upon request → **Same price !!!**

RANGE <b>P16</b> 1A .....1600A							
Part number	TYPES	RATIO		Output connections		Colour	Price (€)
♦ AC Current Output							
P555	P16	1000A	/	1A	Safety sockets Ø4 mm	Grey	386
P559		1500A	/	1.5A			398
P567		500A	/	5A			385
P603		100-500-1000A	/	1A			420
P621		500-1000-1500A	/	5A			
NOTE: for multi ranges probes, range select is done by switching between the 4 output sockets. Therefor no other optimal output is possible for these probes.							
♦ AC Voltage Output (Different connection outputs availables: Contact us ☎)							
P577	P16.U	200A	/	5Vac	Safety sockets Ø4 mm	Blue	415
P587		1500A	/	5Vac			
P628		500-1000-1500A	/	1Vac			497
P630		500-1000-1500A	/	2Vac			
P595	P16.UE	1500A	/	1.5Vac			411
P596		1000A	/	2Vac			
♦ DC Voltage Output							
P1457	P16.V	1500A	/	1Vdc	Safety sockets Ø4 mm	Blue	424
P1460		250-500-1000A	/	1Vdc			509
Alls the clamps can be designed by us in order to inject signals on cables.							
Applications: Cable fault location, current flow, cables identification, ...							

● Spare protectors "Anti short-circuits" SIAC® for the Ranges E16, H16 and P16



(10 for 30€)

**WARNING:** The clamps with voltage output are calibrated on devices with a 1MΩ impedance.

For any lower impedance please contact us ☎

"Special outputs", Cables and leads with choice of the ends, see

page: 35

options

Other colours - Other ratios : Contact us ☎

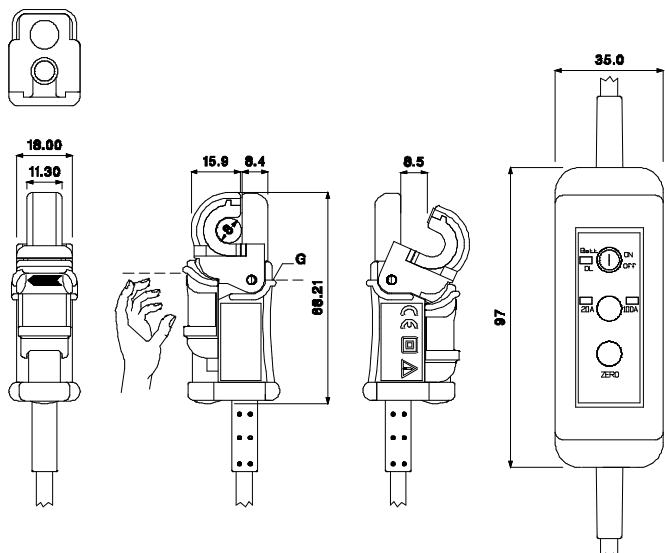


## AC-DC CLAMP-ON CURRENT (Hall effect)

### ➤ The MX

The MX current probe has been designed for use with multimeters, recorders, safety testers etc. for accurate non intrusive measurement of AC and DC current. Using the latest transformer technology, the MX can measure currents from 100mA to 100A over a frequency range of DC to 50kHz.

#### DIMENSIONS (mm)



Release scheduled in 2019

Please contact us



1000 V<sub>RMS</sub>, Catégory III,  
Pollution Degree 2

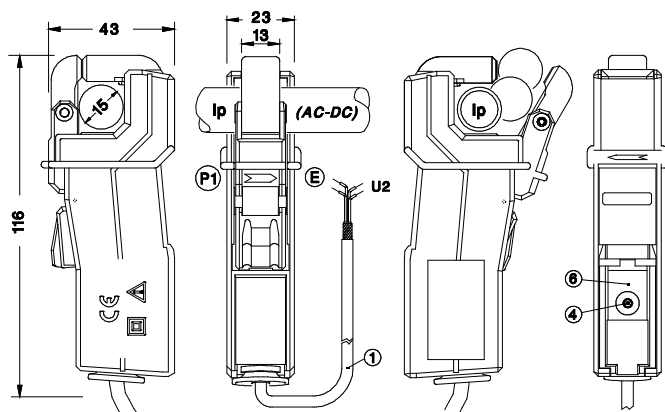
RANGE		MX 100mA .....100A Peak							
Part number		TYPES		RATIO		Output connections		Colour	Price (€)
◆ Power from 9V									
MX4370		MX	20-100A	/	1V	Cable + BNC		Blue	373

### ➤ The M2.1C

The M2.1C current probe has been designed for use with multimeters, recorders, safety testers etc. for accurate non intrusive measurement of AC and DC current. Using Hall effect technology, the M2.1C can measure currents from 5A to 200A over a frequency range from DC up to 1kHz.

The very small head facilitates the insertion of the probe in places where ease of access is of crucial importance.

#### DIMENSIONS (mm)



30 V<sub>RMS</sub>, Catégory I,  
Pollution Degree 2

SERIE M2 10mA .....300A Peak									
Part number		TYPES		RATIO		Output connections		Colour	Price (€)
◆ External Power from 9V to 18V									
M926	M2.1C	300A	/	3V	Cable FM4R free ends		Red	156	

## AC-DC CLAMP-ON CURRENT (Hall effect)

### ➤ AC/DC HE Series

- ❶ The new HE series of battery powered current probes are based on Hall Effect technology for accurate measurement of both AC and DC currents up to 2000A (depending on the chosen model).
- ❷ The new HE series of externally powered current probes are based on Closed Loop Hall Effect technology for accurate measurement of both AC and DC currents.
- ❸ The new HE series of battery powered AC/DC True RMS Clamp-Meters are based on Hall Effect technology for accurate measurement of both AC and DC currents up to 1000A.

#### ❶ Open Loop



#### ❷ Closed Loop



#### ❸ TRUE RMS



300 V<sub>RMS</sub>, Category III, Pollution Degree 2

HE Series									
RANGE									
Part number	RATIO		Frequency range		Max conductor Ø (mm)	Output connections	Power supply	Price (€)	
◆ Open Loop									
G0207	30A	/	3V	DC to 20kHz (-3dB)	25	4mm plugs (1.5m cable)	9V Alkaline	352	
G0208						BNC (2m cable)		488	
G0209	30-300A	/	3V	DC to 100kHz (-0.5dB)				306	
◆ Open Loop									
G0204	1000A		1V	DC to 10kHz (-3dB)	32	4mm plugs (1.5m cable)	9V Alkaline	289	
G0205	100-1000A			DC to 20kHz (-3dB)		BNC (2m cable)		456	
G0206	200-2000A	/	2V					488	
◆ Closed Loop									
G0201	5A	/	5V	DC to 100kHz (-1dB)	32	2.9m cable / free ends	External	573	
G0202	50A								
G0203	150A								
◆ TRUE RMS									
G0210	4A-40A		DC, 15Hz to 4000Hz		25	LCD Display	9V Alkaline	384	
G0211	40A-400A				32			265	
G0212	400A-1000A							306	

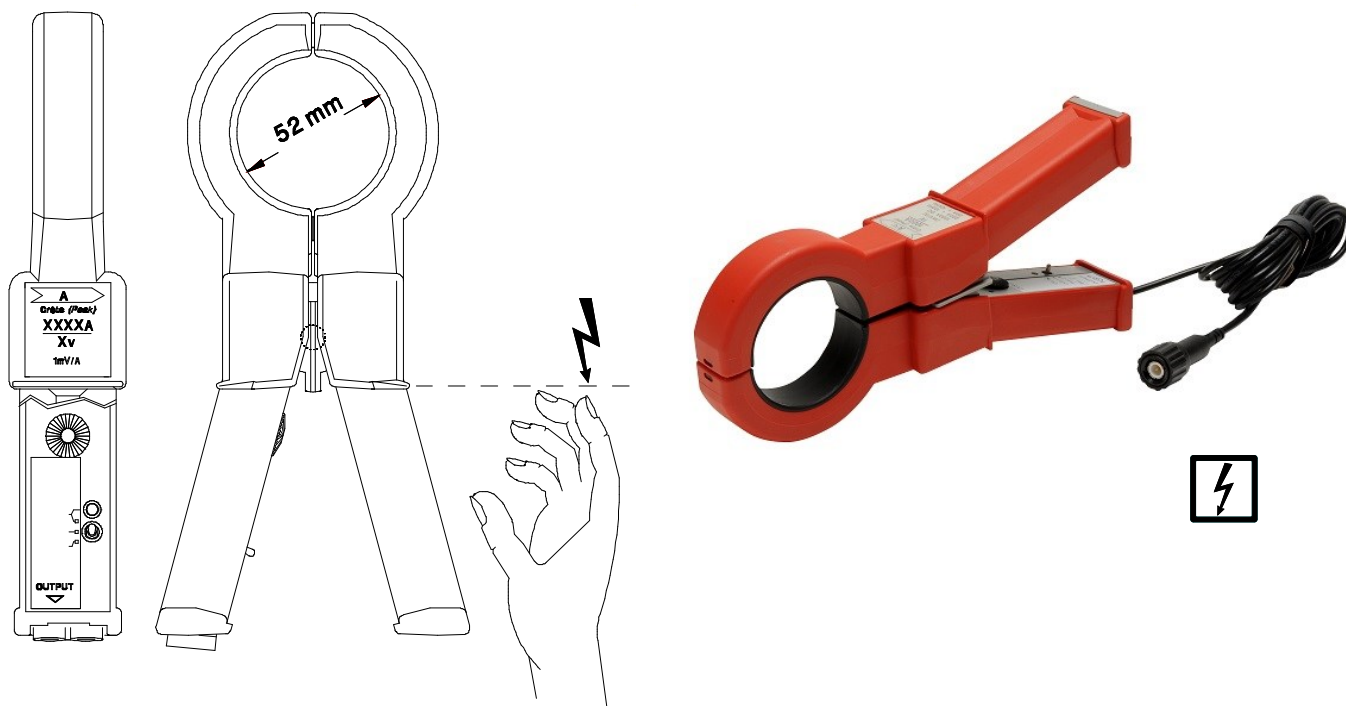


## AC-DC CLAMP-ON CURRENT (Hall effect)

### ➤ The SC

The SC current probe is based on Hall Effect technology for use in measurement of both DC and AC current. The SC may be used in conjunction with multimeters, recorders and other suitable equipment for accurate non-intrusive current measurement.

#### DIMENSIONS (mm)



600 V<sub>RMS</sub>, Category III, Pollution Degree 2

Use of the probe on uninsulated conductors is limited to 600 V AC<sub>RMS</sub> or DC and frequencies below 1kHz.

You will find in the table below a few examples of the possibilities.

RANGE SC 1A .....2000A Peak									
Part number		TYPES		RATIO		Output connections		Colour	Price (€)
♦ AC, DC Input . AC, DC Voltage Output									
External Power from 9V to 18V DC					2m of FM4R cable, free ends				
S1791	SC.1C	200A	/	1V	Power supply and reading with 4 leads	Red	202		
S1169		1000A	/	1V			219		
S1199		1500A	/	1.5V			245		
S1000		1500A	/	1.5V	Power supply and reading with 3 leads		268		
Internal Power with Battery 9V type 6LR61									
S1958	SC.2C	100A	/	1V	Safety sockets Ø4 mm	Red	253		
S1259		800A	/	800mV			261		
S024	SC.3C	1000A	/	1V			312		
S1376		100-1000A	/	1V			354		
S899	SC	2000A	/	2V			337		
S1377		200-2000A	/	2V			391		

"Special outputs", Cables and leads with choice of the ends, see

page: 35

options

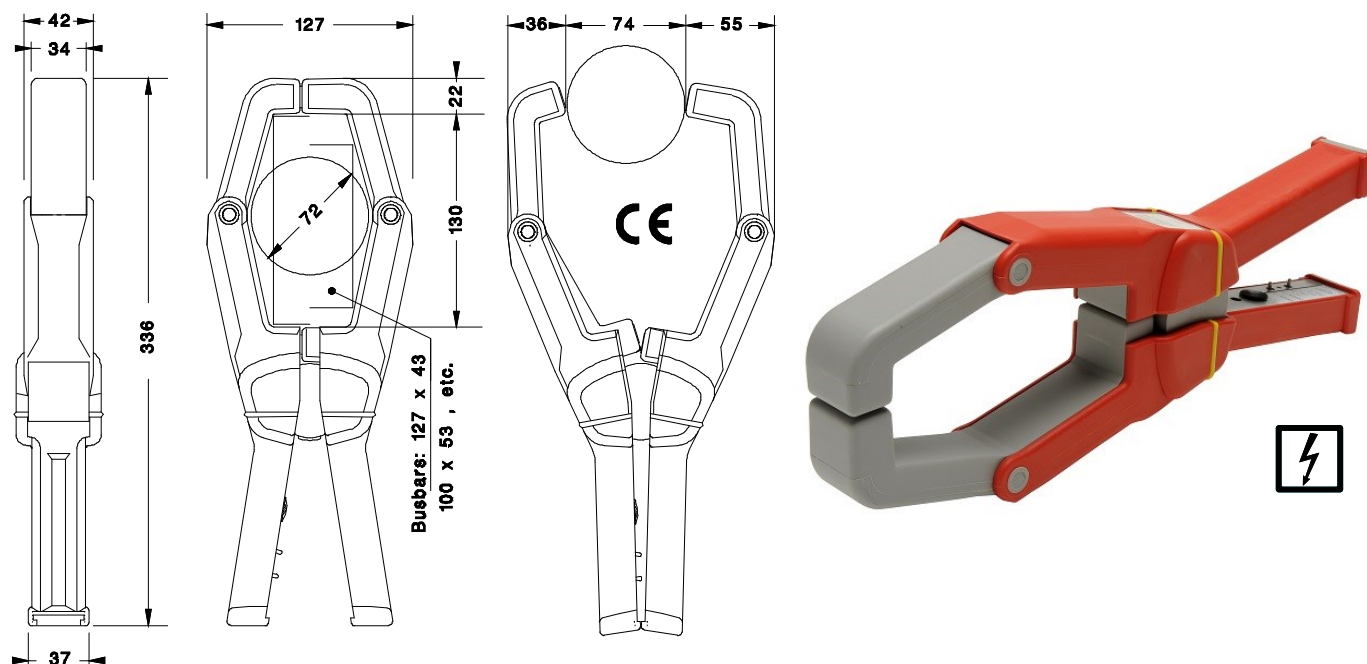
Other colours - Other ratios : Contact us ☎

## AC-DC CLAMP-ON CURRENT (Hall effect)

### ➤ The HC

The HC current probe has been designed for use with multimeters, recorders, power analysers, safety testers etc. for accurate non intrusive measurement of AC/DC current. Using Hall effect technology, the HC can measure currents from 20A to 4000A over a frequency range of DC to 1kHz.

#### DIMENSIONS (mm)



600 V<sub>RMS</sub>, Category III, Pollution Degree 2

Use of the probe on uninsulated conductors is limited to 600 V AC<sub>RMS</sub> or DC and frequencies below 1kHz.

You will find in the table below a few examples of the possibilities.

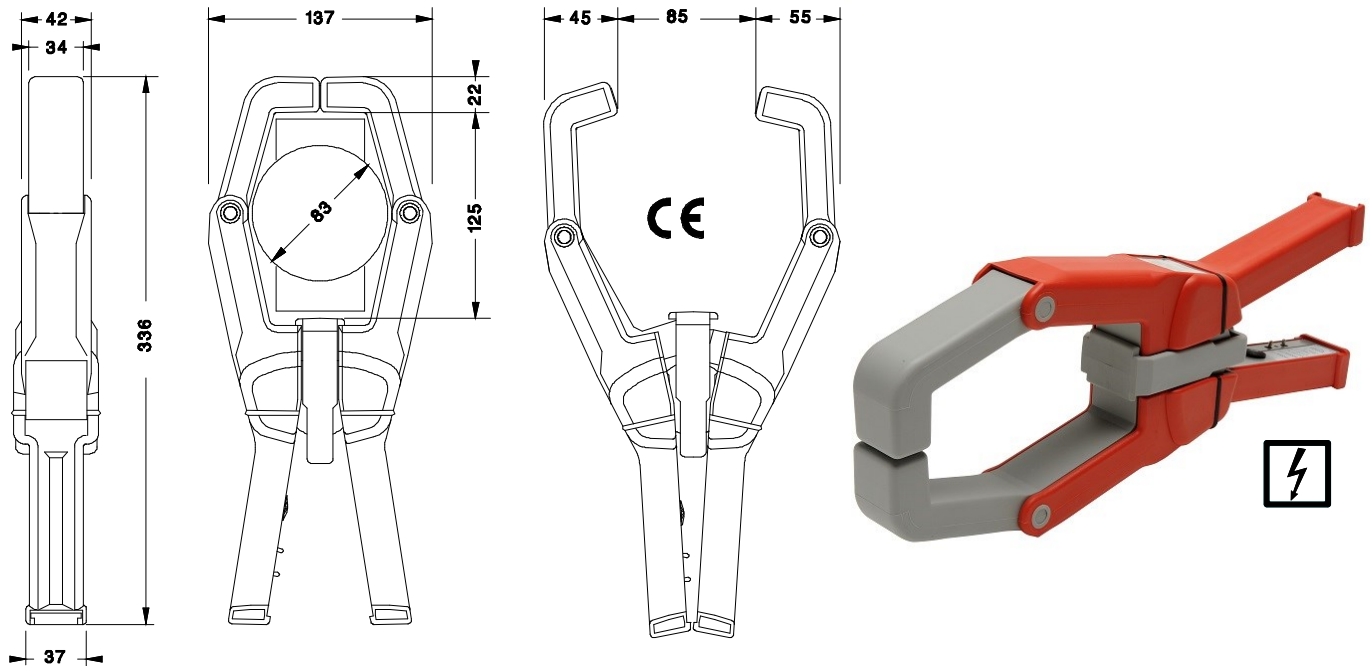
RANGE										HC		± 5000A Peak									
Part number		TYPES		RATIO				Output connections				Colour		Price (€)							
♦ AC, DC Input . AC, DC Voltage Output																					
External Power supplied with a 9V to 18V DC																					
H220		H20.1C		2000A		/		2V		2m Cable FM4R, free ends				Red		674					
H221		H40.1C		4000A		/		2V													
H222		H50.1C		5000A		/		2V													
Internal Power supplied with a 9V battery																					
H223		H20.3C		200-2000A		/		2V		Safety sockets Ø4 mm				Red		721					
H226				1000-2000A		/		2V													
H227		H40.3C		500-4000A		/		2V								920					
H229				2000-4000A		/		2V													
H230		H50.3C		1000-5000A		/		2V								1058					
H231				2000-5000A		/		2V													

## AC-DC CLAMP-ON CURRENT (Hall effect)

### ➤ The PC

The PC current probe has been designed for use with multimeters, recorders, power analysers, safety testers etc. for accurate non intrusive measurement of AC/DC current. Using Hall effect technology, the PC can measure currents from 20A to 4000A over a frequency range of DC to 1kHz.

#### DIMENSIONS (mm)



600 V<sub>RMS</sub>, Category III, Pollution Degree 2

Use of the probe on uninsulated conductors is limited to 600 V AC<sub>RMS</sub> or DC and frequencies below 1kHz.

You will find in the table below a few examples of the possibilities.

RANGE		PC ± 7500A Peak							
Part number	TYPES	RATIO			Output connections		Colour	Price (€)	
♦ AC, DC Input . AC, DC Voltage Output									
External Power supplied with a 9V to 18V DC									
P1464	P20.1C	2000A	/	2V	2m Cable FM4R, free ends	Red	745		
P1465	P40.1C	4000A	/	2V					
P1466	P50.1C	5000A	/	2V					
P1467	P75.1C	7500A	/	1.5V					
Internal Power supplied with a 9V battery									
P1468	P20.3C	200-2000A	/	2V	Safety sockets Ø4 mm	Red	793		
P1019		1000-2000A	/	2V					
P1273	P40.3C	500-4000A	/	2V			987		
P898		2000-4000A	/	2V					
P1472	P50.3C	1000-5000A	/	2V			1141		
P1473	P75.3C	7500A	/	1.5V			1233		
		Et 1000A	/	2V					

**PRICE LIST 2019**

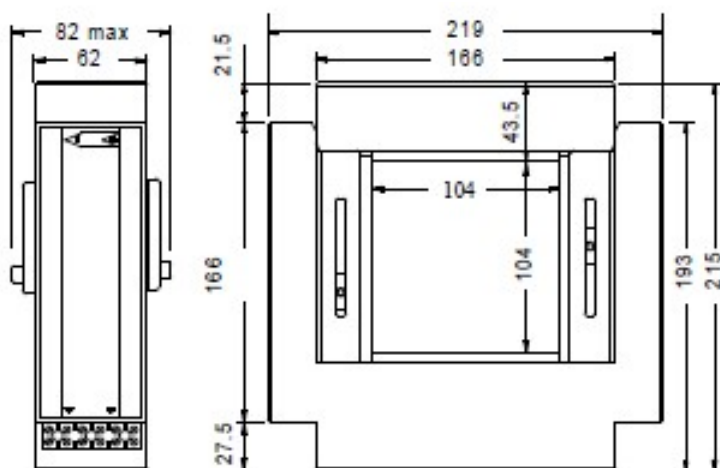
Edition 1

Valid from 1 April 2019

**AC-DC CLAMP-ON CURRENT (Hall effect)**
**➤ TRANSDUCERS**

The C104 open frame transducer is a **Hall Effect** device giving a voltage proportional to the current going through it.

It replaces the shunts while bringing new possibilities (isolation, high signals...). It's open framed structure allow to install it easily, temporary or permanently, on existing installations. It's electronic only need a very low power auxiliary alimentation.

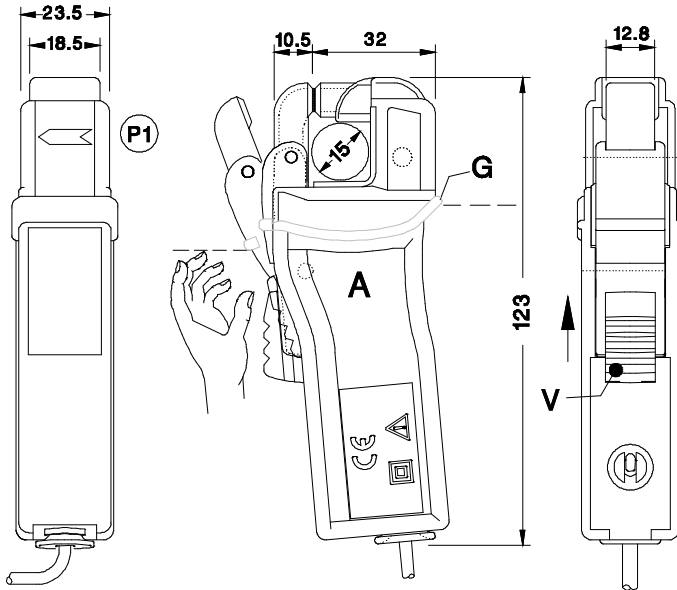
**DIMENSIONS (en mm)**


RANGE									C104			± 15 000A Peak					
Part number		TYPES		Power supply		RATIO			Output connections		Quantity		Price (€)				
C1550		C104.CT - 48/2		36V à 130V DC		15 000A		/		7.5V		Screw block		1 à 2		2284	
		C104.CT - 48/1		36V à 130V DC		10 000A		/		10V				3 à 5		2090	
												6 à 13		1992			
												14 à 21		1888			
C1119		C104.AT - 230/2		230V eff. 50-60Hz		15 000A		/		7.5V		Screw block		1 à 2		2214	
		C104.AT - 230/1		230V eff. 50-60Hz		10 000A		/		10V				3 à 5		2001	
		C104.AT - 230/2N		230V eff. 50-60Hz		15 000A		/		7.5V		BNC		6 à 13		1937	
		C104.AT - 230/1N		230V eff. 50-60Hz		10 000A		/		10V				14 à 21		1811	
C1551		C104.AS - 230/4		230V eff. 50-60Hz		8 000A		/		2V		Screw block		1 à 2		1465	
		C104.AS - 230/5		230V eff. 50-60Hz		10 000A		/		2V				1 à 2		1831	
		C104.AS - 230/4N		230V eff. 50-60Hz		8 000A		/		2V		BNC		1 à 2		1481	
		C104.AS - 230/5N		230V eff. 50-60Hz		10 000A		/		2V				1 à 2		1903	
All transducers are in red stiff polycarbonate																	

WEIGHT AND PACKING			
Type	Nett weight	Individually packing	
C104.CT	3.5 kg	440x270x310mm	1.6 kg
C104.AT	3.6 kg	440x270x310mm	1.6 kg
C104.AS	3.6 kg	440x270x310mm	1.6 kg

## SPECIAL CLAMP

### ➤ M4 TOR (ON-OFF control)



The M4.TOR (ON-OFF control) current clamp has been designed for use with multimeters, recorders, power analysers, safety testers etc. for accurate non intrusive measurement of AC current threshold. Using the latest transformer technology, the self powered M4.TOR is designed to trigger a switch for current from 1 to 50A.

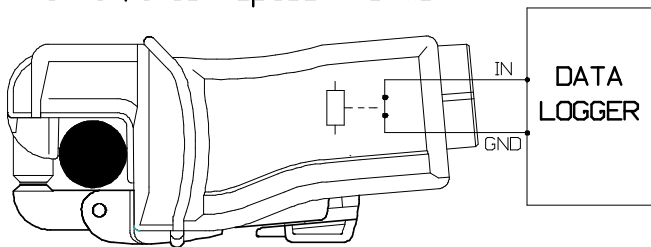
The following document takes the exemple of a clamp triggering at 1A.

#### 600 V<sub>RMS</sub>, Category III, Pollution Degree 2

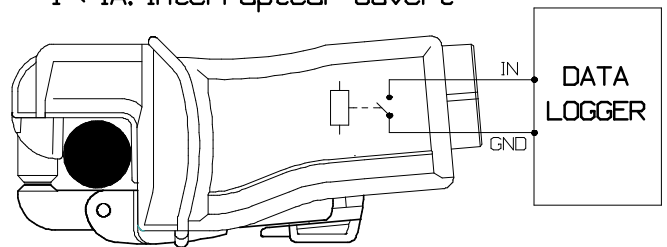
Use of the probe on uninsulated conductors is limited to 600 V AC<sub>RMS</sub> or DC and frequencies below 1kHz.

Primary current	0 à 1 A	1 à 200 A
Output transistor state (open drain)	Open	Closed

$i > 1A$ . Interrupteur fermé



$i < 1A$ . Interrupteur ouvert



M4				
RANGE				
Part number	TYPES	Output connections	Colour	Price (€)
◆ Current Output				
M4238	M4.TOR	Shielded cable FM2R of 2m with free extremity	Blue	160

**Note :** The IN terminal is connected to a NPN transistor (open collector), and the GND terminal is connected to the GND of the data logger through the blue wire. The white wire is to be connected to a digital input of the data logger, which should be at +V (+V from 5 to 10 V) in normal state by use of a pull up resistor (not represented on the above drawing). When the primary current is higher than 1 A the transistor lets the current flow and the IN terminal goes to 0 Volt. The probe does not need any power supply as it gets its supply from the primary current.

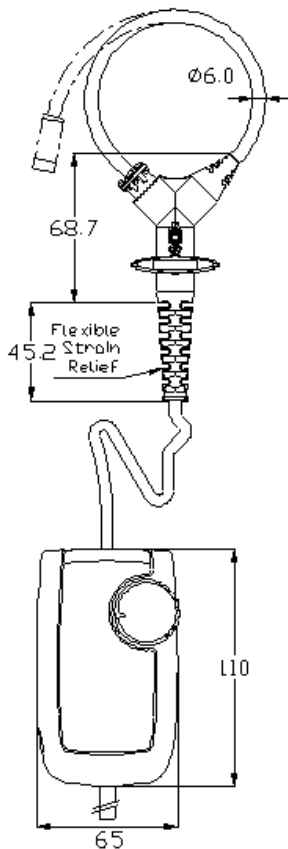
**PRICE LIST 2019**

Edition 1

Valid from 1 April 2019

**Flexible AC Current Probe "U-Flex Micro Series"**

- The U-Flex micro is an AC current clamp utilising the Rogowski principle. It can be used to measure currents up to 1000A (1 or 3 phases) or 2000A (1 phase) from very low frequencies (20Hz) up to **1 MHz** depending on the model. The flexible and lightweight measuring head allows quick and easy installation in hard to reach areas and with large conductors.
- The U-Flex micro is an 3 Phases AC current clamp utilising the Rogowski principle. It can be used to measure currents up to 1000A from very low frequencies (20Hz) up to 10kHz. The flexible and lightweight measuring head allows quick and easy installation in hard to reach areas and with large conductors.

**DIMENSIONS (en mm)**

**1 Phase**

**3 Phases**

**Power Supply Connection**

Pin	Function
Center	- Terminal
Outside	+ Terminal

 1000 V<sub>RMS</sub>, Category III, 600 V<sub>RMS</sub>, Category VI, Pollution Degree 2

U-Flex Micro Series								
RANGE								
Part number	RATIO		Frequency range	Max conductor Ø (mm)	Output connections	Power supply	Price (€)	
◆ 1 Phase								
G01050	10-100-1000A	/	1V	20Hz to 10kHz (-2dB)	14	BNC	3V/100mA External or Battery	343
G01051					20			354
G01052					28			373
◆ 3 Phases								
G01061	10-100-1000A	/	1V	20Hz to 10kHz (-2dB)	14	BNC	3V/100mA External or Battery	704
G01062					20			738
G01063					28			793
◆ 1 Phase								
G01071	20-200-2000A	/	2V	20Hz to 100kHz (-2dB)	14	BNC	3V/100mA External or Battery	274
G01072					20			332
G01073					28			398
G01081	20-200-2000A	/	2V	20Hz to 1MHz (-2dB)	14			539
G01082					20			559
G01083					28			579
It is possible for OEM to get the Flex alone, without the integrator which conditionate the signal. Do not hesitate to contact us ☎								



**PRICE LIST 2019**

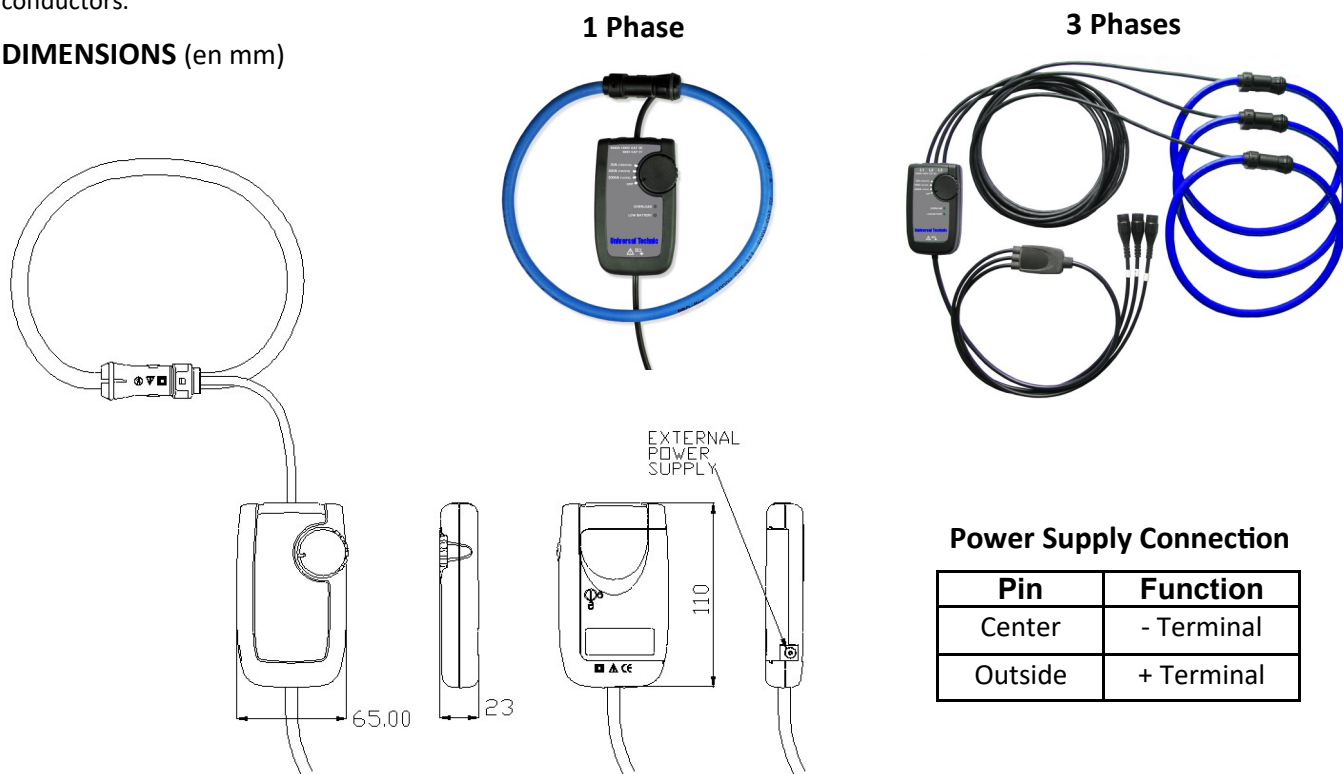
Edition 1

Valid from 1 April 2019

**Flexible AC Current Probe "U-Flex Series"**

● The U-Flex is an AC current clamp utilising the Rogowski principle. It can be used to measure currents up to 3000 or 6000A from very low frequencies to 20kHz.

The flexible and lightweight measuring head allows quick and easy installation in hard to reach areas and with large conductors.

**DIMENSIONS (en mm)**


1000 V<sub>RMS</sub>, Category III, 600 V<sub>RMS</sub>, Category VI, Pollution Degree 2

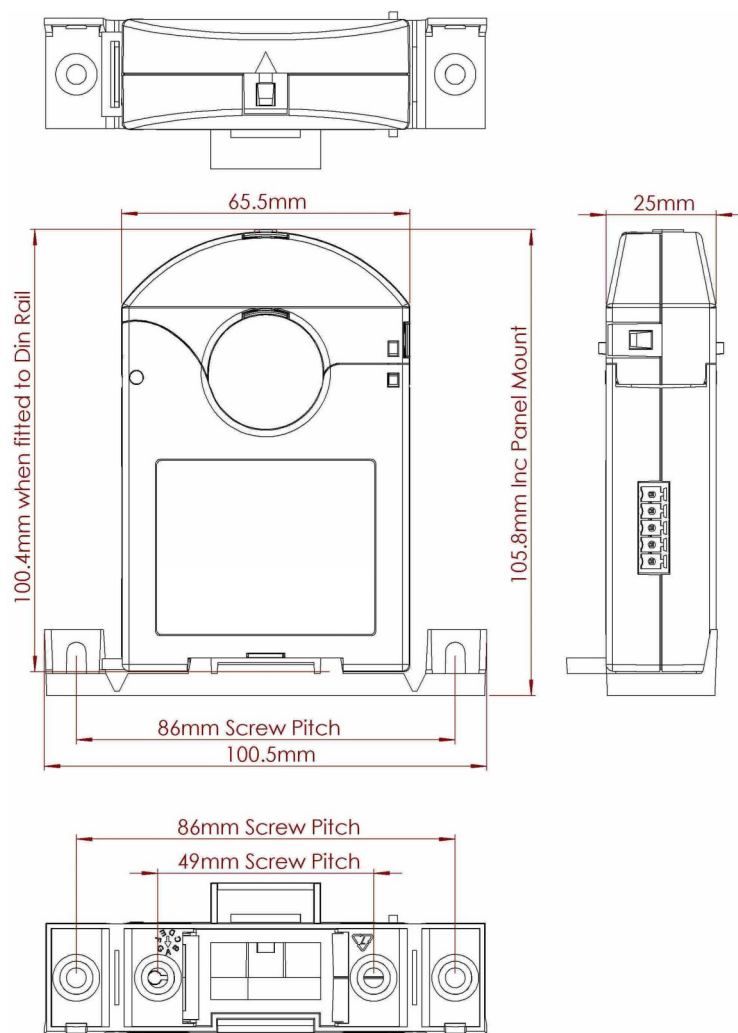
U-Flex Series								
RANGE								
Part number	RATIO		Frequency range	Max conductor Ø (mm)	Output connections	Power supply	Price (€)	
◆ 1 Phase								
G01111	30-300-3000A	/	3V	10Hz to 20kHz (-1dB)	129	BNC	3V/100mA External or Battery	339
G01112					176			339
G01113					264			389
G01114					352			488
◆ 3 Phases								
G01091	30-300-3000A	/	3V	10Hz to 20kHz (-1dB)	129	BNC	3V/100mA External or Battery	754
G01092					176			754
G01093					264			847
G01094					352			1061
◆ 1 Phase								
G01121	60-600-6000A	/	3V	10Hz to 20kHz (-1dB)	129	BNC	3V/100mA External or Battery	476
G01122					176			476
G01123					264			545
G01124					352			618
◆ 3 Phases								
G01101	60-600-6000A	/	3V	10Hz to 20kHz (-1dB)	129	BNC	3V/100mA External or Battery	1035
G01102					176			1035
G01103					264			1205
G01104					352			1361
It is possible for OEM to get the Flex alone, without the integrator which conditionate the signal. Do not hesitate to contad us ☎								

It is possible for OEM to get the Flex alone, without the integrator which conditionate the signal. Do not hesitate to contact us ☎

## AC/DC Split Core Transducer **SCT** Series

The new SCT Series of split core current transducers use Open Loop Hall Effect technology for accurate measurement of both AC and DC currents. The unique snap closed design allows easy connection around conductors making it ideal for retrofitting.

### DIMENSIONS (en mm)



PIN No	Function
1	+ 15 V
2	0 V
3	- 15 V
4	Output +
5	Output -

300 V<sub>RMS</sub>, Category III, Pollution Degree 2

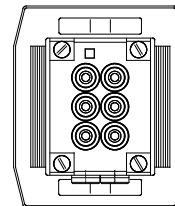
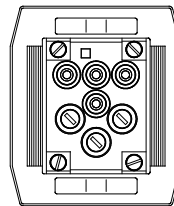
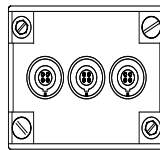
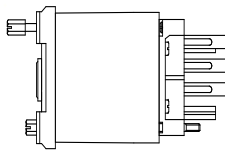
RANGE Transducers							
Part number	TYPES	RATIO			Frequency range	Output connections	Price (€)
G301	Open Loop	500A	/	10V	DC to 10kHz (-3dB)	5 pins Phenix contact	211
G303		1000A	/				289
G302		500A	/	4-20mA			226
G304		1000A	/				304
G305	Closed Loop	30A	/	3V	DC to 100kHz (-3dB)	5 pins Phenix contact	304
G306		300A	/				320



**PRICE LIST 2019**

Edition 1

Valid from 1 April 2019

**MEASUREMENT PLUGS**
**➤ SECURA® - ESSAILEC®**


Part number	TYPES	Input / Output	Output connections	Price (€)
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**MEASUREMENT PLUGS for system SECURA®**

CURRENT		1 PHASE		
T1127	I.cos Ø	6A eff./3.536V eff.	Secondary output by BNC (standard)	171
T1564	PS1ID	1A eff./5V eff.	Sockets output for plug Ø4 mm	224
T1565	PS1ID	5A eff./5V eff.	Sockets output for plug Ø4 mm	

CURRENT		3 CIRCUITS		
PS3ID		4 x 5A eff./0,5V à 5V eff.	Plug counting 1 boxe	
CURRENT		4 CIRCUITS		
PS4ID		4 x 5A eff./0,5V à 5V eff.	Plug "Inter-counting" 1 and 2 boxes	540

VOLTAGE		3 PHASES	The 3 phases are protected by HPC safety fuses	
P1053	PSTM.AC	WITH continuity	Sockets output for security plug Ø4 mm	323
	PSTM.SC	WITHOUT continuity	Sockets output for security plug Ø4 mm	

**ACCESSORIES**

D1586	Doigt de verrouillage			4
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**MEASUREMENT PLUGS for system ESSAILEC®**

CURRENT		1 PHASE		
T1128	I.cos Ø	6A eff./3.536V eff.	Secondary output by BNC (standard)	
	PE1ID	1A eff./5V eff.	Sockets output for plug Ø4 mm	153
	PE1ID	5A eff./5V eff.	Sockets output for plug Ø4 mm	213

CURRENT		3 CIRCUITS		
PE3ID		4 x 5A eff./0,5V à 5V eff.	Plug counting 1 boxe	
CURRENT		4 CIRCUITS		
PE4ID		4 x 5A eff./0,5V à 5V eff.	Plug "Inter-counting" 1 and 2 boxes	455

VOLTAGE		3 PHASES	The 3 phases are protected by HPC safety fuses	
P1054	PETM.AC	Direct protected	Sockets output for security plug Ø4 mm	285
	PETM.SC	Direct protected	Sockets output for security plug Ø4 mm	

**SIGNALS (Voltage watching on the Meters)**

S1579	STC	Manufactured on top SECURA® furnished by the user		45
S1580		Machining of the hood "not defraudable" SECURA® furnished by the user		6.22
S1581	STC	Manufactured on bed plate for a direct fitting on the counting table		53
S1582	STC	No fitted (boxe alone)	See drawing N°P4227	41

**Small CURRENT Transformer of Measure**

T1583	TI	2500/1	Toroidal Transformer. Max current 4mA	50
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Autre versions possibles ➔ Nous consulter ☎

Demander notre "CAHIER TECHNIQUE - FICHES"

Nous pouvons, dans certains cas, reconditionner des fiches existantes.

**WARNING, due to the fast, increase of components prices, some of these prices can be updated . Please contact us for confirmation.**

**PRICE LIST 2019**

Edition 1

Valid from 1 April 2019

**➤ CALIBRATION CERTIFICATE (BNM connected or UKAS)****AC MONO RATIO**

Clamp Type	Fixe Cost : (€)	The point	Number of points (in standard)	With the fixe cost : (€)
M1 M2 M3 M4	9,70	5,90	3 points	28
US NS S SM	19,30	7,80	4 points	52
E16/E32 H16/H32 P16/P32	38,50	7,80	4 points	72

**AC/DC SINGLE RATIO and MULTI RATIO**

SC.3C	19,30	6,00	4 in AC/caliber & 4 in DC/caliber	69
HC/PC	47,70	6,00	3 in AC/caliber & 3 in DC/caliber	86
TRANSDUCER	76,00	7,80	7 in DC/caliber +/-	135

**AC TRI RATIO**

M2 M4	9,70	5,20	9 points (3 by caliber )	58
US NS S SM	19,30	5,20	9 points (3 by caliber )	68
E16/E32 H16/H32 P16/P32	39,70	6,00	12 points (4 by caliber )	115

This table summarizes the most usual requests. We can answer any particular request on the calibrations. Please precise the real using conditions and environment. This can lead to dedicate a CLAMP to an equipment or to a particular application. In this case, the standard CEI 61010-2-032 foresees a special marking of the CLAMP.

WARNING : a calibration is always done with a well defined impedance called rated burden. This is measured at the "OUTPUTS" of the clamp, the Sockets or the extremities of the leads or of the linking cables if they are bounded up with the CLAMP.

One should always consider the influence of the linking elements on the charge or on the accuracy power.

## PRICE LIST 2019

Edition 1

Valid from 1 April 2019

### ➤ Connections, Options, Special outputs

Price (€)

#### ♦ Connectic on the clamp (in handle output)

Reminder : all the clamps are equipped in standard with safety sockets of 4mm.  
For the multi ratio clamps and secondary in Current, only those sockets are usable.  
Socket D01 warning 150V CAT III max  
Metallic BNC, BNC plastic, Sockets for JUPITER plug, sockets JACK type plugs, etc...

#### ♦ Cables connected to the clamps

Shielded cable FM2R of 2m with free extremity	9.80
Shielded cable FM2R of 2m ended with a FRB D01 3 pins connector	22.60
Shielded cable FM2R of 2m ended with a FRB D01 4 pins connector	29.20
Shielded cable FM2R of 2m ended with a DIN Plastic 5, 6 or 8 Pins connector	29.20
Shielded cable FM2R other lenghts longueurs	surcharge by meter 2.30
Shielded cable FM4R of 2m with free extremity	13.10
Shielded cable FM4R of 2m ended with a FRB D01 3 pins connector	31.40
Shielded cable FM4R of 2m ended with a FRB D01 4 pins connector	37.90
Shielded cable FM4R of 0.5m ended with a FRB D01 3 pins connector	23.90
Cable FM4R other lenghts	surcharge by meter 3.30
Cable GRTH, (2x0.93mm <sup>2</sup> ), of 2m free extremity	14.10
Cable GRTH, (2x0.93mm <sup>2</sup> ) other lenghts	surcharge by meter 2.40
Bifilar cable (2x0.75mm <sup>2</sup> ) of 2m with free extremity	4.30
Bifilar cable (2x0.75mm <sup>2</sup> ) of 2m + connector 2 security plugs Red/Black Ø 4mm	11.80
Bifilar cable (2x0.75mm <sup>2</sup> ) of 4m + connector 2 security plugs Red/Black Ø 4mm	24.90
Bifilar cable (2x0.75mm <sup>2</sup> ) other lenghts	surcharge by meter 1.30
NOTE: For shorter cables, there is no reduction (compensated by the fixe expenses).	
Cable in Spiral of 2m ended with a CPR 1000 connector	30.30
Cable in Spiral of 3m ended with a CPR 1000 connector	33.60
Cable in Spiral of 4.5m (5x0.1) ended with free extremity	19.50
Shield coaxial cable, Black, RG58 of 2m long, ended with a BNC connector	25.90
Shield coaxial cable, Black, RG58 of 5m long, ended with a BNC connector	49.80
Shield coaxial cable, Black, 7045IEC of 2.5m long, ended with a BNC connector	29.20
♦ Accessory cables	
Bifilar cable ADAPTATOR of 2m Connector FRB D01 (3 pins)/security plug Ø 4mm	34.70
Set of 2 cables of 2 meters with security plugs Ø 4mm (1 red - 1 black)	16.30

#### ♦ Special connectors ending the Cables

#### ♦ Special cables following specifications or furnished by the customer

Note: WARNING, the Cables and the connectic must be compatible with the nature of the secondary signal,  
"Current: <1A,... 5A" or "Voltage" and "Frequency".

### ➤ WEIGHT AND PACKING

Type	Nett weight	Individually packing			Transport packing	
M1	0.110 Kg	185x70x22 mm	10 g	Sockets output	Following quantity	
M1	0.130 Kg	155x95x22 mm	15 g	Cable output	Following quantity	
M2	0.120 Kg	185x70x22 mm	10 g	Sockets output	Following quantity	
M2	0.140 Kg	155x95x22 mm	15 g	Cable output	Following quantity	
US	0.500 Kg	215x110x50 mm	50 g		Following quantity	
NS	0.590 Kg	215x110x50 mm	50 g		Following quantity	
S	0.620 Kg	215x110x50 mm	50 g		Following quantity	
SM	0.600 Kg	215x110x50 mm	50 g		Following quantity	
SC	0.800 Kg	Mallette			Following quantity	
				Carboard box:	Dimensions (mm).	Weight (g).
E16	1.9 Kg	360x180x75 mm	210 g	1 Pince	440x250x150	950
H16	2.0 Kg	360x180x75 mm	210 g	3 Pinces	440x250x310	1500
P16	2.2 Kg	360x180x75 mm	210 g	6 Pinces	440x250x560	2350
E32	1.4 Kg	360x180x75 mm	210 g			
H32	1.6 Kg	360x180x75 mm	210 g			
P32	1.8 Kg	360x180x75 mm	210 g			