

Amp**FLEX**™ A100 - A101 series

Mini*FLEX* MA100 series MA200 - MA201 series

Flexibility for measuring intensity



- Excellent linearity, low phase shift
- 600 V CAT IV or 1,000 V CAT III
- Flexible and lightweight
- Models for multimeters or oscilloscopes

Flexible current sensors and probes







Amp**FLEX**™ & Mini**FLEX**

These compact, lightweight and ergonomic sensors of varying diameters are capable of clamping all types of conductors, whatever their number, dimensions or shape

(bars, etc.). Due to their flexibility, they can be used in any location, however cramped. They are ideal for the requirements in both industry and the tertiary sector. Their quick and easy opening/closing system makes them simple to handle even when wearing safety gloves.

MA100 Series

The **MA100** sensors are fitted with two types of outputs: insulated Ø 4 mm banana plugs with 19 mm spacing or BNC output. These compact sensors are easy to set up in domestic or industrial electrical cabinets.

A100 Series



Specially designed for measuring AC currents from **0.5 A to 10 kA**, Amp**FLEX**TM sensors are equipped with outputs via insulated Ø 4 mm banana plugs with 19 mm spacing. They can be connected directly to all multimeters, wattmeters, etc.

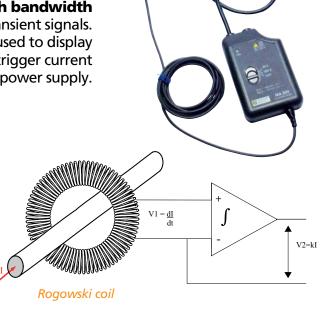
The length of the sensors in this series, **up to 120 cm** as standard, means they can clamp large-section cables or several conductors simultaneously. They are ideal for measurement in switch cabinets or subtransmission cabinets.

MA200 Series

The **MA200** insulated current probes are equipped with a BNC output and can be connected to all types of oscilloscopes. They offer **high bandwidth** and are particularly suitable for viewing transient signals. The **MA200** models can notably be used to display the control signals, the thyristor trigger current or the output signal of a power electronics power supply.

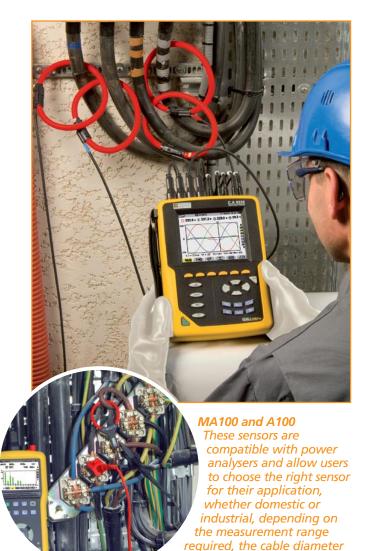
The Amp**FLEX**[™] and Mini**Flex** sensors are based on the principle of the Rogowski coil, supported by electronics inside a casing.

Because they do not contain a magnetic circuit, they are particularly lightweight and flexible. This also means there is no saturation effect and thus no heating. This specific feature ensures excellent linearity and a low phase shift.



Amp*FLEX*[™] and Mini*FLEX* sensors can be used in a very wide range of applications:

- power measurements
- measurements on switchboards
- measurements on thyristors
- switching measurements (disconnecting switch, etc.)
- display of control signals



 The MA200 Series is compatible with all types

of oscilloscopes.



OUR EXPERTISE: «MADE-TO-MEASURE» INSTRUMENTS

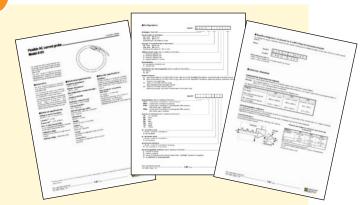
and the space available.

Our experience means we are capable of designing, developing and manufacturing specific models to suit your requirements:

- sensitivity (mV/A)
- connection technology
- sensor lengths, etc.

The A101 and MA101 Series are dedicated sensors for professionals and measurement instrument manufacturers wishing to integrate this technology into their assemblies or sub-assemblies.

Contact us



For multimeters, wattmeters, loggers, etc.

MA100	30 A / 300 A	300 A / 3,000 A	300 A / 3,000 A	
Sensor length	170 mm	250 mm	350 mm	
Clamping diameter	Ø 45 mm	Ø 70 mm	Ø 100 mm	
I/O ratio (mV/A)	100 mV/A – 10 mV/A	10 mV/A – 1 mV/A	10 mV/A – 1 mV/A	
Measurement range	0.5 A - 30 A / 0.5 A - 300 A	0.5 A - 300 A / 0.5 A - 3000 A	0.5 A - 300 A / 0.5 A - 3000 A	
Bandwidth (- 3 dB)	5 Hz to 20 kHz			
References				
Ø 4 mm insulated banana plugs with 19 mm spacing	P01120560	P01120561	P01120562	
BNC + Ø 4 mm banana plug adapter	P01120563	P01120564	P01120565	

A100	20 A / 200 A	2	kA	0.2 kA	/ 2 kA	C	.3 kA / 3 k	Α	1 kA / 10 kA
Sensor length	45 cm	45 cm	80 cm	45 cm	80 cm	45 cm	80 cm	1,2 m	1,2 m
Clamping diameter	Ø 14 cm	Ø 14 cm	Ø 25 cm	Ø 14 cm	Ø 25 cm	Ø 14 cm	Ø 25 cm	Ø 38 cm	Ø 38 cm
I/O ratio (mV/A)	100 mV/A - 10 mV/A	1 mV/A 10 mV/A – 1 mV/A		10 mV/A – 1 mV/A		1 mV/A - 0,1 mV/A			
Measurement range	0.5 A 200 A	0.5 A	2 kA	0.5 A .	2 kA	().5 A 3 k	Ą	0.5 A 10 kA
Bandwidth (- 3 dB)	10 Hz to 20 kHz								
References									
Ø 4 mm insulated banana plugs with 19 mm spacing	P01120503	P01120501	P01120502	P01120504	P01120505	P01120506	P01120507	P01120508	P01120509

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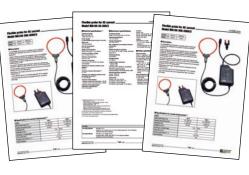
\cap	For oscilloscopes				
MA200	30 A / 300 A – 45 A peak / 450 A peak				
Sensor length	170 mm	250 mm			
Clamping diameter	Ø 45 mm	Ø 70 mm			
I/O ratio (mV/A)	100 mV/A – 10 mV/A				
Measurement range	0.5 A – 30 A /	0.5 A – 300 A			
Bandwidth (- 3 dB)	5 Hz to	1 MHz			
References					
BNC	P01120570	P01120571			

	COMMON GENERAL SPECIFICATIONS			
Power supply	9 V battery (6LF22)			
Electrical safety	Double insulation – IEC 61010 : casing 600 V CAT III, sensor B 600 V CAT IV / 1000 V CAT III			
Environmental conditions	Use: -10 °C to +55 °C and 80 % HR to 50 °C			
Sensor protection	IP 50 leakproofing (MA100 and MA200), IP 65 (A100) - Resistant to oils and aliphatic hydrocarbons			
Dimensions / weight	Casing: 140 x 64 x 28 mm - MA < 250 g / 250 g < A100 < 560 g Built-in lead: 2 m (linking the sensor to the casing)			
Max. peak output voltage	4.5 V			

State at delivery:

• MiniFLEX MA100 with output via banana plugs: delivered with 9 V alkaline battery, 1 operating manual in 5 languages

- MiniFLEX MA100 with BNC output: delivered with 1 adapter for insulated female BNC - Ø 4 mm insulated male with 19 mm spacing, 9 V alkaline battery, 1 operating manual in 5 languages
- Amp*FLEX*™ A100 : delivered with 9 V alkaline battery and operating manual in 5 languages
- MiniFLEX MA200: delivered with 9 V alkaline battery and operating manual in 5 languages



For assistance and ordering

Technical documents downloadable from www.chauvin-arnoux.com

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