

AmpFLEX[™]
A100 - A101 series
MiniFLEX
MA100 - MA200 series
MA101

Flexibility for measuring intensity



CHAUVIN®

- Standard & Mini Models
- Large measurement range from 0.5 A_{AC} to 10 kA_{AC}
- Excellent linearity, low phase shift
- 600 V CAT IV or 1,000 V CAT III
- Flexible and lightweight
- Models for multimeters, loggers or oscilloscopes

INDUSTRY AND

TERTIARY SECTOR









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.

MiniFLEX 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.





Amp*FLEX™* A100 Series

Specially designed for measuring AC currents from **0.5 A to 10 kA**, Amp*FLEX*™ 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.

MiniFLEX 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.

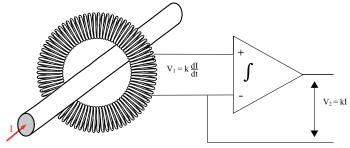


Principle of Rogowski coils

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.

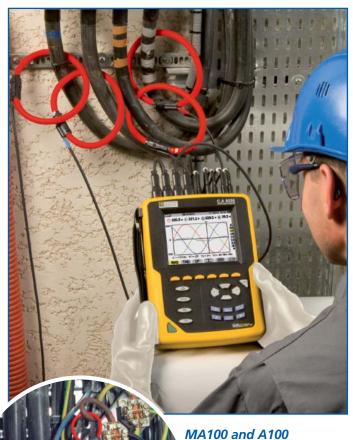
This specific feature ensures excellent linearity and a low phase shift.



Rogowski coil

AmpFLEX™ and MiniFLEX 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



These sensors are compatible with power analysers and allow users to choose the right sensor for their application, whether domestic or industrial, depending on the measurement range required, the cable diameter and the space available.

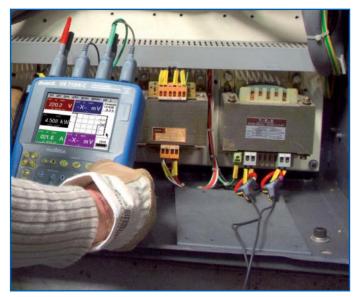
OUR EXPERTISE: "MADE-TO-MEASURE" INSTRUMENTS

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

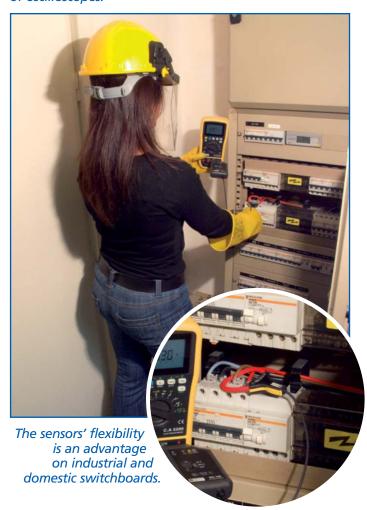
- sensitivity (mV/A)
- connection technology
- sensor lengths, etc.

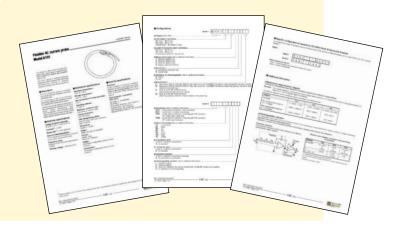
The AmpFLEXTM A101 Series and MiniFLEX MA101 Series are dedicated sensors for professionals and measurement instrument manufacturers wishing to integrate this technology into their assemblies or sub-assemblies.

Ask your Chauvin Arnoux contact



The MA200 Series is compatible with all types of oscilloscopes.







For multimeters, wattmeters, loggers, etc.

A100	20 A / 200 A	2 kA		0.2 kA / 2 kA		0.3 kA / 3 kA			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		0.5 A 3 kA		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

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

For oscilloscopes and high frequency applications

MiniFLEX MA200	30 A / 300 A – 45 A pe	3000 A – 4500 A peak			
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 - 1	1 mV/A			
Measurement range	0.5 A – 30 A / 0.	5 A – 3000 A			
Bandwidth (-3 dB)	5 Hz to 1 MHz				
References					
BNC	P01120570	P01120571	P01120572		

COMMON GENERAL SPECIFICATIONS			
Max. peak output voltage	4.5 V		
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		
Sensor protection	IP 50 leakproofing (MA100 and MA200), IP 65 (A100) - Resistant to oils and aliphatic hydrocarbons		
Environmental conditions	Use: -10 °C to +55 °C and 80 % HR to 50 °C)		
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)		

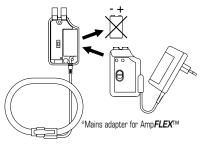
Accessories:

• Mains power pack

 For AmpFLEX™A100*:
 P01101968

 For MiniFLEX MA100:
 P01102086

 For MiniFLEX MA200:
 P01102087





State at delivery:

- MiniFLEX MA100 with insulated Ø 4 mm male plug output: 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
- AmpFLEX™ 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

Technical documents downloadable from www.chauvin-arnoux.com