

Amp*FLEX*™ A100 - A101 series

MiniFLEX MA100 - MA200 series **MA101**

Flexibility for measuring intensity



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

NDUSTRY AND

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.

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.





AmpFLEX[™] 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.



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



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 Amp*FLEX*[™] 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.





The MA200 Series is compatible with all types of oscilloscopes.



	Configurations		
support latin	Chapter Short Hot Concerning Short Hot Concerning Short Hot Concerning Short Hot Short Short Hot Short Hot Short Hot Short Hot Sh	Constitution of the second second second	
AC current prote	Legal of pressan size and in particular Security of the size of the s		A Description of Additional Society of Additional Additional Additional Society of Additional Society of Additional Addi
	endorse stepper (2)	and the second s	
	Consistence to interformantily only a utilized intervalues V, and Construction and a structure intervalues and an additional and additional and additional additionadditional additional additional additional additional additionadd	a statement and	/
	Applied of the paint with other annumber of the paint of the pain		and all all all all all all all all all al
And And And And And And And And And	Low 3 Low 3 Low 3 Low 3 Low 3 Low 3 Low 4 L		
Control of the second sec	FW (a) A fact of a data (a) data (a) data (a) • Rein (a)	A second state and state a	****
View Construction Sector	No. 1990 No. 2004 A constant Promotely of A A constant Promotely of A A constant of A	soot - Alsoo	Concession of the American
And a state of the	All is a control of memory to All is a control of the memory All is a control of the me		
	A - Andread or answer A - Section and Andread		
"Amount in the field in the second seco	Reconstructed formation (Construction) (Constructio	24	/
* Andreas Transmission Print Park Con- mentation Print Park Con- Transmission		18/ m	B
			and the second sec

For multimeters, wattmeters, loggers, etc.

A100	20 A / 200 A	2	kA	0.2 kA	/ 2 kA	().3 kA / 3 kJ	1	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	(D.5 A 3 kA	ł	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 – <i>'</i>	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 \bullet Built-in lead: 2 m (linking the sensor to the casing)	

Accessories:

- Mains power pack
 For Amp*FLEX™* A100*:
 For Mini*FLEX* MA100:
 For Mini*FLEX* MA200:
- *Mains adapter for Amp**FLEX**^M



Technical documents downloadable from

www.chauvin-arnoux.com

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

P01101968

P01102086

P01102087

• MiniFLEX MA200: delivered with 9 V alkaline battery and operating manual in 5 languages

FRANCE

Chauvin Arnoux 190, rue Championnet 75876 PARIS Cedex 18 Tel: +33 1 44 85 44 38 Fax: +33 1 46 27 95 59 export@chauvin-arnoux.fr www.chauvin-arnoux.fr

UNITED KINGDOM

Chauvin Arnoux Ltd Unit 1 Nelson Ct, Flagship Sq, Shaw Cross Business Pk Dewsbury, West Yorkshire - WF12 7TH Tel: +44 1924 460 494 Fax: +44 1924 455 328 info@chauvin-arnoux.co.uk www.chauvin-arnoux.co.uk

MIDDLE EAST Chauvin Arnoux Middle East P.O. BOX 60-154 1241 2020 JAL EL DIB - LEBANON Tel: +961 1 890 425 Fax: +961 1 890 424 camie@chauvin-arnoux.com www.chauvin-arnoux.com

