



MFC-FLEX-80

MFC-FLEX-80, Flexible sensors for FLEX analysers

Code: M82111.

- > Sensor length: 250 mm
- > Inner diameter (mm): 80
- > Cable Length (m): 3
- > Measurement Range (A): 1000 A / 100 mV @ 50 Hz. (RMS values) | 1000 A / 120 mV @ 60 Hz. (RMS values)
- > Max. Current (A): 100000

Description

The flexible current sensor allows AC current measurements in any installation with complete rejection of DC components, very low power consumption, no saturation problem, low temperature dependence and very good linearity. The flexible sensor, based on the Rogowski coil principle, the position of the clamp can affect the accuracy of the measurement, so it is important to centre the conductor on the coil as much as possible so that it is not affected by external magnetic fields. It is also recommended not to place the conductor in the area of the coil closure because this is the area where the measurement has the greatest error. Thanks to the flexibility of the current sensor, it is possible to surround one or several conductors regardless of their shape, in order to perform current measurement actions.

Application

These flexible current sensors are specifically designed for FLEX model network analysers.



MFC-FLEX-80

Flexible Clamps

Code: M82111.

Specifications

Electrical characteristics

Cable: Connector type	3 x 22 AWG shielded
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Environmental characteristics

Protection class	IP 67
Relative humidity (without condensation)	0 ... 95 %
Installation, location, position.	Inside
Storage temperature	-40 ... 80 °C
Working temperature	-30 ... 80 °C

Mechanical characteristics

Envelope	Thermoplastic polyurethane UL94-V0
Weight (kg)	0,123

Specific technical characteristics of current sensors

Accuracy	$\leq \pm 1 \%$
Maximum current	100 kA
Inner diameter \varnothing (mm)	80 mm
Output voltage	100 mV/kA @ 50 Hz (RMS values) 120 mV/kA @ 60 Hz (RMS values)

Current measurement circuit

Nominal frequency	50/60 Hz.
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Standards

Electrical safety, Maximum height (m)	2000
Electrical safety, Installation category	CAT III 1000 V, CAT IV 600 V
Electrical safety, Contamination level/class	2
Standards	UL 61010-1 Ed3, UL 61010-2-032, CAN/CSA-22.2 No. 61010-1, IEC 60529

Measurement accuracy

Current measurement sensors	Class 0,5-A1 according to IEC 61869-10
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MFC-FLEX

Rogowski flexible sensors for FLEX devices

CODE	TYPE	Inner diameter (mm)	Sensor length	Measurement Range (A)	Max. Current (A)
M82111.	MFC-FLEX-80	80	250 mm	1000 A / 100 mV @ 50 Hz. (RMS values) 1000 A / 120 mV @ 60 Hz. (RMS values)	100000



MFC-FLEX-80

Flexible Clamps

Code: M82111.

CODE	TYPE	Inner diameter (mm)	Sensor length	Measurement Range (A)	Max. Current (A)
M82114.	MFC-FLEX-125	125	400 mm	1000 A / 100 mV @ 50 Hz. (RMS values) 1000 A / 120 mV @ 60 Hz. (RMS values)	100000

Compatible only with FLEX type devices. Only one sensor is supplied per code

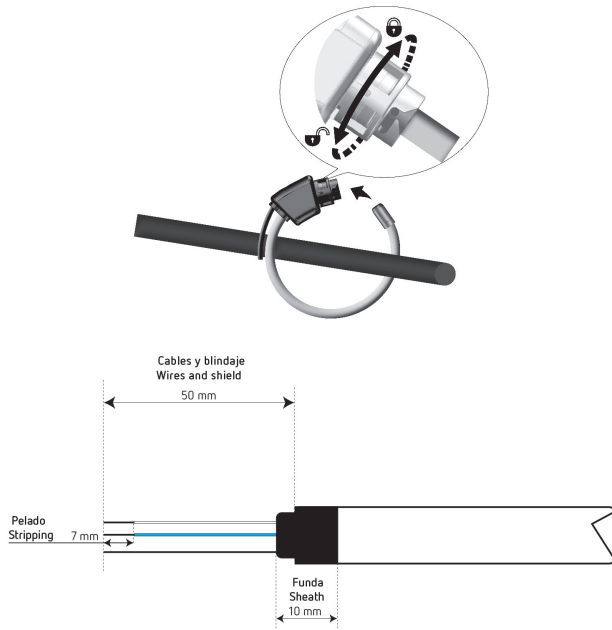


MFC-FLEX-80

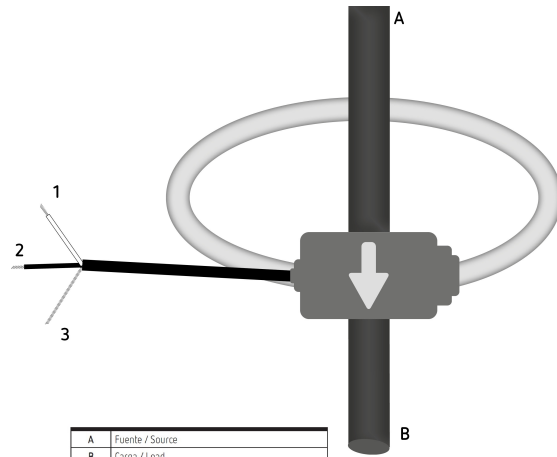
Flexible Clamps

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Dimensions



Connections



A	Fuente / Source
B	Carga / Load
1	OUT+, Conductor Blanco / White wire
2	OUT-, Conductor Azul / Blue wire
3	Blindaje, conectarse a GND o OUT- / SHIELD, connect to GND or OUT-

Nota: El sensor tiene una flecha que indica el lado de la carga.
Note: The coil has an arrow indicating the load side.