



MFC-FLEX-125, Flexible sensors for FLEX analysers

Code: M82114.

> Sensor lenght: 400 mm > Inner diameter (mm): 125 > Cable Lenght (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.







Flexible Clamps

Code: M82114.

Specifications

Cable: Connector type	3 x 22 AWG shielded
Environmental characteristics	
Protection class	IP 67
Relative humidity (without condensation)	0 95 %
Installation, location, position.	Indoor
Storage temperature	-40 80 °C
Working temperature	-30 80 °C
Mechanical characteristics	
Envelope	Thermoplastic polyurethane UL94-V0
Weight (kg)	0,16
Specific technical characteristics of current sensors	
Accuracy	≤±1%
Maximum current	100 kA
Inner diameter Ø (mm)	125 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.
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

MFC-FLEX

Rogowski flexible sensors for FLEX devices

CODE	TYPE	Inner diameter (mm)	Sensor lenght	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







Flexible Clamps

Code: M82114.

CODE	TYPE	Inner diameter (mm)	Sensor lenght	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





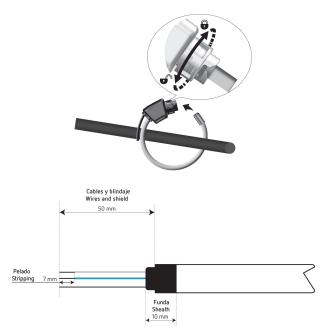


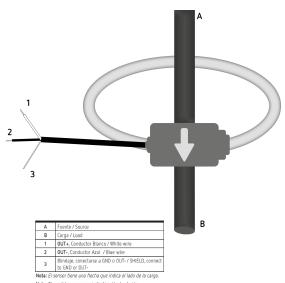
Flexible Clamps

Code: M82114.

Dimensions

Connections





Note: The coil has an arrow indicating the load side.

