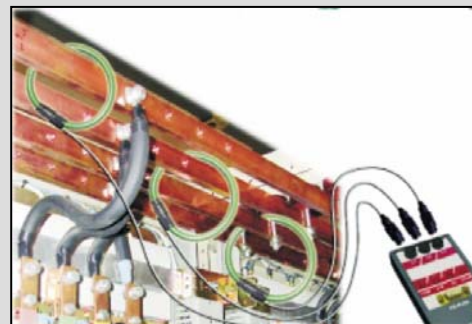


# Flexible Current Sensor

## Generic for power analyzers & Multi-meters

### What is a flexible current sensor?

- ✓ The flexible current sensor of CIRCUTOR provides us with the ability to measure alternating current in any installation
- ✓ They can work with all kind of power analyzers, multi-meters, etc., and with all the equipments that need a current measurement
- ✓ Thanks to the flexibility of this current transducers, one or diverse conductors can be embraced, regardless their shape (insulated cables, busbar trunking systems, tubes, etc.)



### What is CIRCUTOR offering you?

- ✓ Experience as a **manufacturer** of clamps in our factory of Barcelona (Spain)
- ✓ Possibility of customizing the product (brand, colour, technical features, etc.)
- ✓ Competitive prices

## TRANSDUCERS

### Standard Lengths:

- 45 cm
- 80 cm
- 120 cm
- \* Consult for others

- ✓ *Ergonomic opening-closing system*



## AMPLIFIERS

### Two types:

- Single-phase: One amplifier for one transducer
- Three-phase: Only one amplifier for three transducers

### Standard amplifications:

- 30/300/3000 A
- 60/600/6000 A
- 200/2000/20000 A
- \* Consult for others



## KITS

### SINGLE-PHASE

#### Kit C-Flex 45 cm

- 1 Transducer C-Flex 45 cm length
- 1 Amplifier 2 V output with three scales
- 1 AC/DC adaptor 12V

#### Kit C-Flex 80 cm:

- 1 Transducer C-Flex 80 cm length
- 1 Amplifier 2 V output with three scales
- 1 AC/DC adaptor 12V

#### Kit C-Flex 120 cm:

- 1 Transducer C-Flex 120 cm length
- 1 Amplifier 2 V output with three scales
- 1 AC/DC adaptor 12V

### THREE-PHASE

#### Kit C-Flex 45 cm

- 3 Transducers C-Flex 45 cm length
- 1 Amplifier 2 V output with three scales
- 1 AC/DC adaptor 12V

#### Kit C-Flex 80 cm:

- 3 Transducers C-Flex 80 cm length
- 1 Amplifier 2 V output with three scales
- 1 AC/DC adaptor 12V

#### Kit C-Flex 120 cm:

- 3 Transducers C-Flex 120 cm length
- 1 Amplifier 2 V output with three scales
- 1 AC/DC adaptor 12V

# Main Features

- Wide measuring range, from 5 A to 20 kA
- Output range: 2 Volts AC full scale
- High accuracy
- Bandwidth adapted to industrial frequencies and harmonic analysis purposes
- Minimum angle shift to accomplish accurate Watt measurements
- Null saturation effect
- Total rejection of DC component
- Simultaneous measurement of the three phases
- Friendly-use of the closing-opening system (even if wearing gloves) due its highly ergonomic design
- Anti-fraud closing system
- Very light, flexible and fully adaptable to busbar trunking system and insulated cables
- Strengthened security, regardless the working environment: industrial or services
- Large autonomy of the signal amplification system. Possibility of external power supply at 220 V c.a. / 12 Vd.c.
- You can purchase the units in two ways:
  1. *Only the transducer*: Amplifier part should be provided by the end user
  2. *Complete Kit*: includes transducer and amplifier (different voltage output possibilities upon request)

## Technical characteristics

FEATURES	NOTES	DESCRIPTION		
		45 cm	80 cm	120 cm
Sensor Length	1			
Measuring Ranges	2, 6	200 A / 2000 A / 20 kA 60 A / 600 A / 6 kA 30 A / 300 A / 3 kA		
Output Sensitivity	2, 6	10 mV/A ; 1 mV/A ; 0,1 mV/A 33,33 mV/A ; 3,33 mV/A; 0,33 mV/A		
Nominal Output Voltage	6	2 V at full scale (form factor 1)		
Bandwidth	3	10 Hz up to 5 KHz		
Accuracy	4, 5	±1 %		
Linearity	4, 5	±0,2 %		
Residual current		4 mV ; 1 mV ; 1 mV 0,4 A in 200 A range ; 1 A in 2000 A range ; 10 A in 20 kA range		
Minimum Load	5	10 kΩ		
Power supply		2 AA size 1,5 V batteries (Low battery indication: Led Off lighted)		
Auxiliary External Power Supply		Switching Power Supply 100 V – 250 VAC / 12 VDC 300 mA		
Autonomy		120 h typical		
Electrical Security		Double insulation EN 61010 – 600 V Cat III Pollution Degree 2		
Environment Conditions		Usage and storage: -20 °C to 85°C and 15% to 85% RH without condensing		
Sensor Protection		IP65		
Dimensions / Weight		Amplifier enclosure: 120 x 65 x 22 mm / 220 g Attached signal cable : 1m (other lengths upon request)		
Weight of flexible sensor		< 130 g	< 250 g	< 380 g

1: Other lengths upon request

2: Three different models. Other measuring ranges upon request

3: Limits of bandwidth corresponding to a relative gain > -3dB

4: Full Scale error in reference conditions

5: Reference conditions: 45 Hz – 65 Hz, conductor measured normal to the

sensor plane and to its geometrical center, temperature between 15°C and 25°C;

10 kΩ of load impedance; laboratory environment electrical noise free.

6: For the measuring range 30 A / 300 A / 3 kA the nominal output is 1 V



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