

PRIMATA
Tecnologia Eletrônica

Technical Specifications

P61

Flexible Current Sensor

Current Transformer – CT – Rogowski Coil

Diameter: Ø175 mm



Presentation

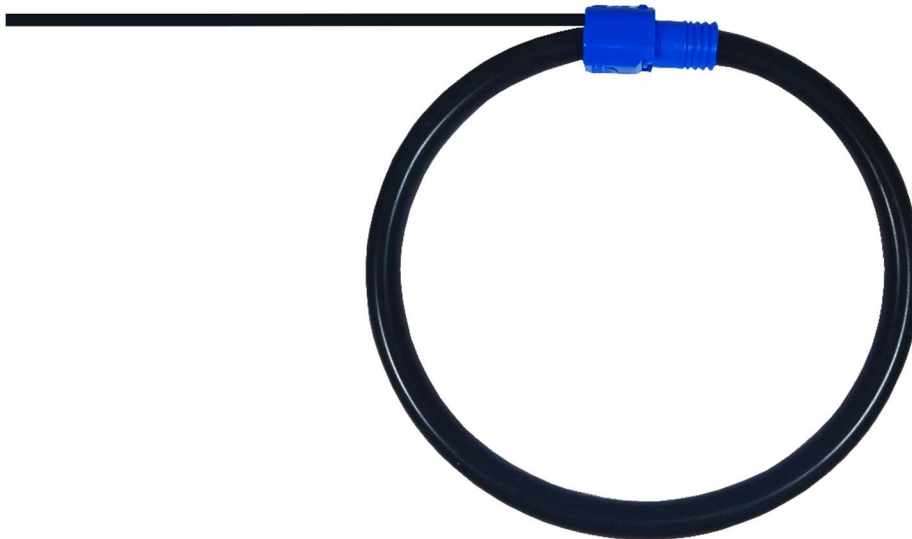
The **Flexible Current Sensor P61 – CT – Diameter Ø175 mm** is a high performance and very low error current transformer. Designed by **PRIMATA ELECTRÔNICA** to serve all meters, loggers and energy analyzers on the market, the sensor is based on the working principle of the **Rogowski Coil**.

Weatherproof, robust and with easy opening and closing system, the **Flexible Current Sensor P61** is designed to provide the following output signal:

- ✓ V_{ORMS} in 1000A x 60Hz: 100mV.

The cable can be sized with length and connector as needed.

The **Flexible Sensor P61** can be supplied with **Amplifier / Integrator System**, also weatherproof, to raise the output signal to **1V** (other values upon request). This system has input channels that allow the use of up to 4 sensors.



Applications

- ✓ Power quality measurement and monitoring;
- ✓ Industrial and residential load analysis;
- ✓ Waveform analysis;
- ✓ Automation and control;

Opening / Closing System and Installation

To open the **Flexible Current Sensor P61**, just slide the smaller connector towards the center of the coil (to close it, just slide it in the opposite direction), without having to press or pull the connectors. The arrow on the larger connector is related to the direction of the current flow and indicates that the sensor should be installed so that it points the direction of the source to the load.

Main Features

Insulation Voltage	1000V (CAT III)
Output Voltage (V _{ORMS})	100mV (in 1000A x 60Hz)
Frequency Range	30Hz to 3kHz
Accuracy	± 0.6%
Phase Error	± 1.0°
Phase Offset	90°
Operating Temperature	-10 to 60 °C
Internal Diameter	Ø175 mm
Weight (With 2.0 m cable)	200 g
Protection against UV Rays	Yes
Degree of Protection	IP 65
Amplifier / Integrator System	1V output (other values upon request)
Input Channels	Up to 4 flexible sensors
Dimensions	46 x 70 x 100 mm
Degree of Protection	IP 65

Contact us:

Tel.: +55 (41) 3223-2176

Rua Visconde de Nácar, 288, Centro
Curitiba - PR - 80410-200

www.primataeletronica.com.br



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www.primataeletronica.com.br
comercial@primataeletronica.com.br

Rev. 02-2020
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