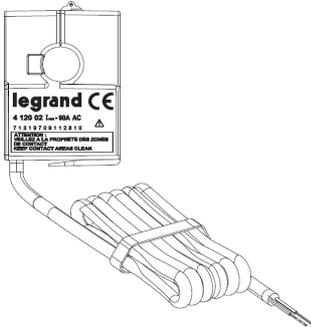


Measuring transformer

Catalogue Number(s):
4 120 02

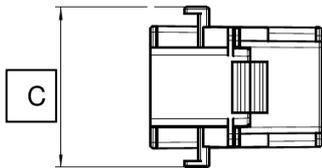
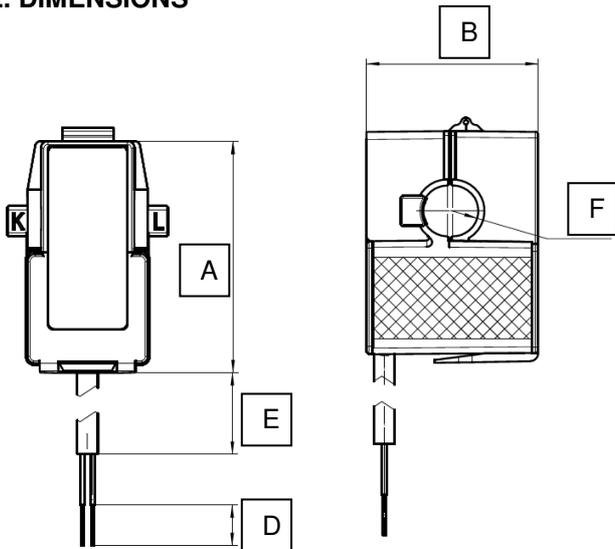


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1. DESCRIPTION & USE

Split core type current measuring transformer for calculating electrical power when it is connected to a Legrand measuring card Cat. No. 4 120 00.
Current Accuracy class 1 in accordance with IEC 60044-1.

2. DIMENSIONS



Cat. No.	Dimensions (mm)					
	A	B	C	D	E	F
4 120 02	45.5	35.5	32	8	1000	10

3. GENERAL CHARACTERISTICS

3.1 Technical characteristics

Diameter 10 mm sensing aperture non-contact measurement.
Transformer equipped with a 1 m AWG25 output cable
Output cable with 18 mm stripped end (8 mm stripped and tinned)
Compact plastic case with transformer closing system, easy to install
AC current measurement at 230 V at 50 Hz
Max. current at the primary: $I_{max} = 90 \text{ A}$
Number of turns at the primary = 1
Primary/secondary ratio = 1/1000
Output voltage at a load of 4 ohms :

I_p	V_{sec}
320 mA	1.28 mV
16 A	64 mV
60 A	240 mV
90 A	360 mV

Max. voltage with no load at secondary = 70 V
Operating temperature: -20°C to 70°C
Storage temperature: -30°C to 90°C
Protection index: IP 30
Cable insulation: 300 V
Primary/secondary isolation: 6 mm
Self-extinguishing: 960°C

3.2 Materials

Plastic parts: polyamide Blue RAL 5005
Core: ferrite
Coil: copper wire
Cable: AWG25
Solder: tin
Cable clamp: steel

3. GENERAL CHARACTERISTICS (continued)

3.3 Accuracy

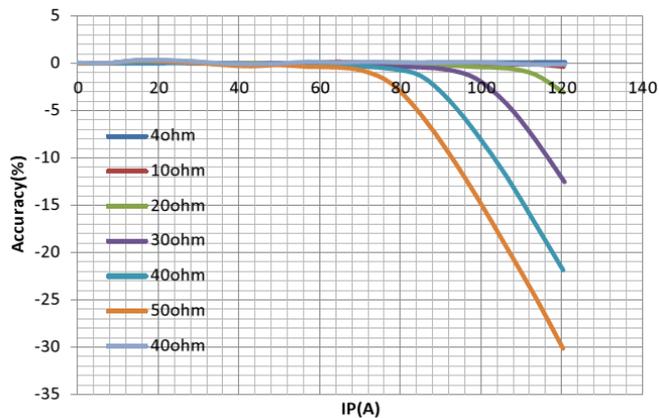
Current error conforms to Class 1, IEC 60044-1.

Phase-shift error of $1.5^\circ \pm 1^\circ$ as per the table below for the maximum values

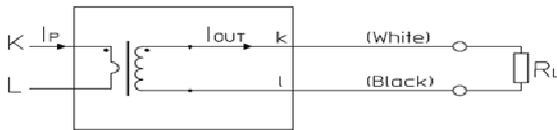
Current in A	3	10	60	90
Max. phase shift in degrees	2	2	2	2.5

0.1% linearity error

Accuracy curve at 50 Hz and a temperature of 25°C:



3.4 Connection and polarisation



4. COMPLIANCE AND APPROVALS

Compliant with the following standards:

IEC 60695-2-11

IEC 61010-1

Compliant with the following directives:

REACH

ROHS

WEEE