

Provide with 3 flexible Rogoflex sensors

From 40 cm to 120 cm length + 2m cable length Installation on bus bar where space is limited

3 x 5Aac outputs (1.8VA)

Direct replacement of current transformers

2.5A to 50KA current measurement

ratio: 500A, 1kA, 2.5kA, 5kA, 10kA, 25kA, 50kA individual channel setting 50Hz and 60Hz systems (45...65Hz)

Applications Retrofit installations.

Easily fit into tight panels and suit of most installations.



The CAL101rogo-3 is a ready install kit for application where space is insufficient for conventional current transformers. The 5A outputs is useful for direct connexion with standard measure devices (counter, wattmeter, threshold relays, ...)

Description:

The CAL101rogo-3 is for alternative current measurement within The front face have 3 sets of DIP switches used for setting the <mark>7 configurable ČT ratios : 500A/5A ; 1kA/5A ;</mark> 2.5kA/5A ; 5kA/5A ; 10kA/5A; 25kA/5A and 50kA/5A.

Individual CT ratio can be configured for each channel (with dipswitches on front face) for single-phase applications. The measure range is from 0.5% to 120% of rated current input.

The frequency range is from 45Hz to 65Hz.

Benefits of Rogowski current sensors:

The Rogowski coil current sensors are suitable for use where space is limited. The flexible form are easily fit into tight panels and are available on a wide range of size for most of applications (available from 40 cm to 120 cm).

Like standard split-core transformers, the Rogowski coils can be easily integrated into existing panels without having to cut lines.

Features:

Surfaced mounted or mounted on symmetrical DIN rail. Protection rating IP20.

Wiring on screwed terminal block. 2.5mm² section maxi.

Installation:

- Install the Rogowski sensor around the conductor to be measured (close the sensor coil and center it as possible). Check if the three sensors are in the same direction.
- Connect the sensors to CAL101rogo-3 (white -> in+, Black -> in-, shield -> S)
- Connect the 5A outputs with respect of polarity (signal phase) Use of 2.5mm² section wires for loss limitation.
- Connect the 24Vdc power supply (It must be able to provide 1A)

Dip switch configuration

rating current ratio. The DIP switch is OFF when it is on the High position and ON when it is on the Low position. Configure the switches for each channel for the desired measure range.

	1	2	3	4	5
500:5A	ON	OFF	OFF	OFF	ON
1000:5A	ON	OFF	OFF	ON	OFF
2500:5A	ON	OFF	ON	OFF	OFF
5000:5A	OFF	OFF	OFF	OFF	ON
10000:5A	OFF	OFF	OFF	ON	OFF
25000:5A	OFF	OFF	ON	OFF	OFF
50000:5A	OFF	ON	ON	OFF	OFF

Version and order code:

CAL101rogo-3/60

Request a quote

CAL101rogo-3/40 Three-phase integrator. 5A outputs with

40cm Rogowski coil sensor(12cm diameter). 2m cable length.

60cm Rogowski coil sensor(20cm diameter).

Three-phase integrator. 5A outputs with

2m cable length. CAL101rogo-3/90

Three-phase integrator. 5A outputs with 90cm Rogowski coil sensor(30cm diameter).

2m cable length.

Three-phase integrator. 5A outputs with CAL101rogo-3/120

120cm Rogowski coil sensor(40cm diameter).

2m cable length.

option: AL140L 24Vdc / 1A power supply

http://www.loreme.fr/fichtech/AL140L_eng.pdf

Measure						
Current (A) 500 1000 2500 5000 10000 25000		Output 5A @ 500A 5A @ 1000A 5A @ 2500A 5A @ 5000A 5A @ 10000A 5A @ 25000A	CT ratio 500:5 1000:5 2500:5 5000:5 10000:5 25000:5			
50000	250 to 60000	5A @ 50000A	50000:5			

Frequency: 45 ... 65Hz

Output

Output current 0...5A nominal 0..6A maxi Output accuracy +/-1% of setting range

Output power 1.8VA Output impedance < 50mohms Load regulation +/-0.2% +/-0.03% / °C Thermal stability < -60dB Channel cross talk

Power supply

24Vdc +/-5% max consumption 1A 25Watts

Environment

Operating temperature -20 to 55 °C -25 to 85 °C Storage temperature Thermal drift (% of full scale) < 0.03 % / °C

Humidity 85 % (non condensed)

Weight ~ 650 g

IP20 **Protection rating**

Shock IEC 60068-2-27 (operating) 15 G / 11 ms Bump IEC 60068-2-29 (transportation) 40 G / 6 ms Vibration IEC 60068-2-6 (operating) 1 G / 10 - 150 Hz 2 G / 10 - 150 Hz Vibration CEI 60068-2-6 (transportation)

Dielectric strength (Inputs/Power-Outputs-Relays) 2500 Vrms

MTBF (MIL HDBK 217F) > 3 000 000 Hrs @ 25°C Life time > 200 000 Hrs @ 30°C

Electromagnetic compatibility 2014/30/UE / Low Vo.	Itage Directive 2014/35/UE

industrial	y standard for environments 1000-6-2	Emission standard for industrial environments EN 61000-6-4	
EN 61000-4-2 ESD	EN 61000-4-8 AC MF	EN 55011	
EN 61000-4-3 RF	EN 61000-4-9 pulse MF		
EN 61000-4-4 EFT	EN 61000-4-11 AC dips	group 1	
EN 61000-4-5 cwg	EN 61000-4-12 ring wave	class A	
EN 61000-4-6 RF	EN 61000-4-29 DC dips		,

WIRING AND OUTLINE DIMENSIONS: Length on the DIN rail: 215mm x 91mm

