Integrator amplifier for Rogowski sensor 5A current output

CAL101rogo-3

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 7 configurable CT ratios : 500A/5A ; 1kA/5A ; 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

The front face have 3 sets of DIP switches used for setting the 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.

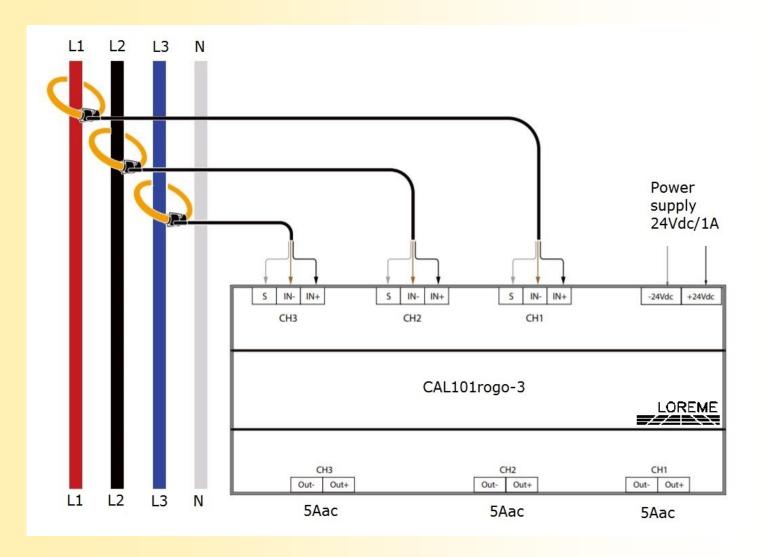
	1	2	3	4	5
500:5A	ON	OFF	OFF	OFF	ON
1000:5A	ON	OFF	OFF	ON	OFF
2500:5A	ON	OFF	ON	OFF	OFF
5000:5A	OFF	OFF	OFF	OFF	ON
10000:5A	OFF	OFF	OFF	ON	OFF
25000:5A	OFF	OFF	ON	OFF	OFF
50000:5A	OFF	ON	ON	OFF	OFF

Version and order code:

Request a quote 🔀

CAL101rogo-3/40	Three-phase integrator. 5A outputs with 40cm Rogowski coil sensor(12cm diameter). 2m cable length.
CAL101rogo-3/60	Three-phase integrator. 5A outputs with 60cm Rogowski coil sensor(20cm diameter). 2m cable length.
CAL101rogo-3/90	Three-phase integrator. 5A outputs with 90cm Rogowski coil sensor(30cm diameter). 2m cable length.
CAL101rogo-3/120	Three-phase integrator. 5A outputs with 120cm Rogowski coil sensor(40cm diameter). 2m cable length.
option : AL140L	24Vdc / 1A power supply http://www.loreme.fr/fichtech/AL140L_eng.pdf

90 days a	ccuracy (20 °C +	<mark>/- 2 °C) DATA SHE</mark> E	ET CAN BE DOWNLOA	DED ON WWW.LOREME.FR	TECHNIC	AL SPECI	FICATIONS
Measure				Environment			
Current (A) measure (A) Output CT ratio 500 2.5 to 600 5A @ 500A 500:5 1000 5 to 1200 5A @ 1000A 1000:5 2500 12.5 to 3000 5A @ 2500A 2500:5 5000 25 to 6000 5A @ 5000A 5000:5 10000 50 to 12000 5A @ 10000A 10000:5 25000 125 to 30000 5A @ 25000A 25000:5 50000 250 to 60000 5A @ 25000A 25000:5 50000 250 to 60000 5A @ 25000A 25000:5 50000 250 to 60000 5A @ 50000A 50000:5 Cutput Output current 05A nominal 06A maxi 0utput accuracy +/-1% of setting range 1.8VA 0utput impedance < 50mohms		500:5 1000:5 2500:5 5000:5 10000:5 25000:5 50000:5	Storage temperature -25 Thermal drift (% of full scale) < 0. Humidity 85 % Weight Protection rating Shock IEC 60068-2-27 (operating) Bump IEC 60068-2-29 (transportation) Vibration IEC 60068-2-6 (operating) Vibration CEI 60068-2-6 (transportation) Vibration CEI 60068-2-6 (transportation) Dielectric strength (Inputs/Power-Outputs-Ref MTBF (MIL HDBK 217F) > 3		to 55 °C to 85 °C .03 % / °C % (non condensed) ~ 650 g IP20 15 G / 11 ms 40 G / 6 ms 1 G / 10 - 150 Hz 2 G / 10 - 150 Hz 2 G / 10 - 150 Hz 2 G / 00 Vrms 000 000 Hrs @ 25°C 00 000 Hrs @ 30°C		
	Thermal stability +/-0.03% / °C Channel cross talk < -60dB			Electromagnetic compatibility 2014/30/UE / Low Voltage Directive 2014/35/U Immunity standard for Emission standard for			
Power supply 24Vdc +/-5% max consumption 1A 25Watts		industrial environme EN 61000-6-2		industria	l environments 61000-6-4		
		EN 61000-4-2 ESD EN 61000 EN 61000-4-3 RF EN 61000 EN 61000-4-4 EFT EN 61000 EN 61000-4-5 CWG EN 61000	0-4-9 pulse MF 0-4-11 AC dips	EN 55011 group 1 class A	CE		



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