INSTALLATION MANUAL Alternate Current Loop-Powered Converter for Rogowski Coil



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MI004590-E ENGLISH LANGUAGE INSTRUCTIONS-EN

MODULE LAYOUT					
		Dimensions (L×H×W) 18 x 62 x 105 mm (with terminals). Weight 47 g. Case Material PC-ABS self-extinguishing, Grey color. Mounting 35mm IEC EN60715 DIN Rail.			
LED SIGNALING ON FR					
LED	Status		LED's meaning		
PWR (Red)	Blinking		Alarm: Measurement Out of Range		
TECHNICAL SPECIFICA	TIONS				
STANDARDS	EN61326 (EMC) EN61010-1 (safe		ments).		
INSULATION	No insulation between input and output. The isolation with respect to the measuring circuit is realized by the Rogowski sensor used.				
ENVIRONMENTAL CONDITIONS Temperature Humidity Altitude Storage temperature Protection rating	-25°C - +70°C. 10% - 90% non-condensing. Up to 2000 m. above sea level. -40°C - +85°C. IP20.				
Setting time	10 s.				
Response time	500 ms.				
Accuracy class	0.5% of the measure (see table: • ERROR).				
Thermal drift	< 200 ppm/°C.				
CONNECTIONS	Removable three pole screw terminal pitch 5mm, for cable up to 2.5 \mbox{mm}^2 .				
SENSOR CABLE	Length < 3m				
@ CENECA	MIOOA	500 F			

POWERSUPPL	SUPPLY From output 4 – 20 mA loop. Voltage 9 – 28 V Power absorbed < 0.6W. Maximum load 600 Ω.							
INPUT	Rogo Meas	Rogowski's sensor 100mV / kAscales: 250A, 500A, 1000A, 2000A and 4000A at 50-60Hz. Rogowski's sensor 333mV / kAscales: 75A, 150A, 300A, 600A and 1200A at 50-60Hz. Measurement: TRMS. Bandwidth 3kHz. Overload 20kA (2 Vrms). Mains filter damping: Fast = 0.5 s or Slow = 1 s.						
OUTPUT		Current 4 – 20 mA. Maximum 22 mA. Overvoltage protection and polarity reversal protection.						
BANDWIDTH	AND N	OMINAL SENSITIVITY	AT FULL SCALE					
ENCODER PO	SITION	BANDWIDTH	SENSITIVITY AT 50 Hz	SENSITIVITY AT 60 Hz				
0 / 5		10 Hz – 2 kHz	25 mV	30 mV				
1/6		10 Hz – 2 kHz	50 mV	60 mV				
2/7		10 Hz – 1 kHz	100 mV	120 mV				
3/8		10 Hz – 500 Hz	200 mV	240 mV				
4/9		10 Hz – 250 Hz	400 mV	480 mV				
ERROR								
1% [†]								
	No suggest to place the conser percendicularly to							
PRELIMINARY WARNINGS								
Before performing any operation is mandatory to read the full contents of this manual. The module may only be used by qualified and skilled technicians in the field of electric installation. Specific documentation is available for download at website: www.seneca.it/products/s201rc-lp.								
Only the Manufacturer is authorized to repair the module or to replace damaged parts. The product is susceptible to electrostatic discharge, take appropriate countermeasures during any operation.								
dev dev	No warranty is guaranteed in connection with faults resulting from improper use, from modifications or repairs carried out by Manufacturer-unauthorized personnel on the device, or if the content of this user Manual is not followed.							
Disposal of electrical & electronic equipment (applicable throughout the EU and other countries with separate collection programs). The symbol found on this product or on its packaging, indicates that this product it must be handed over to an applicable collection point for the recycling of electrical and electronic equipments .								
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ELECTRICAL CONNECTIONS 123 Power Supply and 4 - 20 mA Output ì 000 Sensor Input 101112

ROGOWSKI'S SENSOR INSTALLATION

TECHNICAL SPECIFICATIONS



CONFIGURATIONS

Encoder Position	Full Scale 100mV/1kA	Full Scale 333mV/1kA	Damping Filter	Encoder Position	Full Scale 100mV/1kA	Full Scale 333mV/1kA	Damping Filter	
0	250 A	75 A	Fast 0.5s	5	250 A	75 A	Slow 1s	
1	500 A	150 A	Fast 0.5s	6	500 A	150 A	Slow 1s	
2	1000 A	300 A	Fast 0.5s	7	1000 A	300 A	Slow 1s	
3	2000 A	600 A	Fast 0.5s	8	2000 A	600 A	Slow 1s	
4	4000 A	1200 A	Fast 0.5s	9	4000 A	1200 A	Slow 1s	
ORDER CODES								
Code		Description						
S201RC-L	P	A	Alternate Current Loop-Powered Converter for Rogowski Coil.					
RC150-02	5-100-3M	Rogowski Coil L=25cm Ø int.8cm,100mV/1kA-50Hz, cable L=3mt.						
RC150-03	5-100-3M	M Rogowski Coil L=35cm Ø int.11cm,100mV/1kA-50Hz, cable L=3mt.						
RC150-040-100-3M			Rogowski Coil L=40cm Ø int.12cm,100mV/1kA-50Hz, cable L=3mt.					
RC150-06	0-100-3M	F	Rogowski Coil L=60cm Ø int.19cm,100mV/1kA-50Hz, able L=3mt.					
RC150-09	0-100-3M	Rogowski Coil L=90cm Ø int.28cm,100mV/1kA-50Hz, cable L=3mt.			=3mt.			
RC150-12	0-100-3M	Rogowski Coil L=120cm Ø int.38cm,100mV/1kA-50Hz, cable L=3mt.						
RC150-18	0-100-3M	Rogowski Coil L=180cm Ø int.57cm,100mV/1kA-50Hz, cable L=3mt.						
RC150-CA	VEX-ROG1	E	Extension over 3 mt. for Rogowski coil connection cable L=1mt.					
RC150-CA	VEX-ROG2	E	Extension over 3 mt. for Rogowski coil connection cable L=2mt.					
RC150-CA	VEX-ROG3	E	Extension over 3 mt. for Rogowski coil connection cable L=3mt.					
RC190-03	0-333-3M	F	Rogowski Coil L=30cm Ø int.9,5cm,333mV/1kA-50H, cable L=3mt.					
CONTA	CTS							
Technical	support	Support@s	Support@seneca.it Product Informations			Sales@seneca.it		
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