

Automation manufacturer & supplier



CiTop-IoT

Delivers green light into your IoT automation projects!

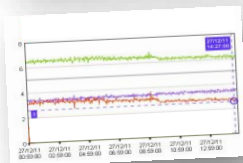
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Introduction

The automatic cathodic protection transformer rectifier (CPTR) protects underground metal constructions against soil corrosion by a method of cathodic polarization.

It can be equipped with GSM/GPRS / GPS / LORA-MODBUS modem for communication with IoT-SCADA system.

The IoT-SCADA has graphical web browser based user interface to the system.



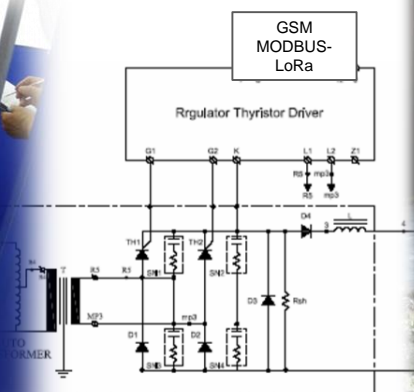
CP-Rectifier



CP-Rectifier Specification

Cooling	Natural air cooling	List of remote monitoring values:
Input	Single phase AC 220/230V, 50 Hz.	<ul style="list-style-type: none"> - Output voltage and current. - Protective potential (if reference electrode is connected)
Rectifier type	Diodes/SCRs bridge	<ul style="list-style-type: none"> - Time counters (time of work, and time of useful work) - Power counter (as option)
Output	Nominal Current A DC, 12/21/25/32/42/64/82; Nominal Voltage V DC, 12/24/48/96	<ul style="list-style-type: none"> - main voltage AC (as option) - "pipe-anode" resistance - Temperature inside the controller box
Auto Mode	Stabilization of the protective potential or output current	Other remote monitoring and data handling features
Remote control	GSM/GPRS, LoRa-Modbus, GPS, see separate datasheet of CiTop-IoT's CP-Micro RTU!	Emergency signalization to central computer and transfer doubled SMS-message to mobile phones of staff (if built-in GSM-modem is installed).
Mounting	The CPTR can be mounted on a plinth and using on the open air.	Archiving of electronic journal of the CP rectifier, with a measurement each hour and the volume of the journal for 2 last months (archive). Thanks to this option the controller has function of intelligent control in case of some accident situation.
Modem	GSM/GPRS / GPS / LoRa-Modbus	

	Description	CiTop® CP-Rectifier					
		0,3	0,6	1,2	2,0	3,0	4,0
1.	Nominal output current, DC, Amps Mode 1 Mode 2	25 12	25 12	50 25	42 21	64 32	82 41
2.	Nominal output voltage DC, V Mode 1 Mode 2	12 25	24 48	24 48	48 96	48 96	48 96
3.	Nominal output power, kW	0,3	0,6	1,2	2,0	3,0	4,0
4.	Mains AC, single phase voltage, V frequency, Hz	220/230 ± 10% 50 ± 2,5%					
5.	Power consumption for a nominal output power, kW, no more**	0,42/0,43	0,83/0,86	1,64/1,72	2,67/2,86	3,75/4,3	5,0/5,71
6.	Efficiency for a nominal output power, no less, %**	71/70	72/70	73/70	75/70	80/70	80/70
7.	Power factor for a nominal output power, no less	0,85					
8.	Range of the output voltage continuously control, %, no less	5 - 100					
9.	Accuracy of automatic stabilization (output current and protective potential), % no more	2,5					
10.	Automatic stabilization of protective potential, at the range, V	from -0,8 till -3,5					
11.	Voltage overload protection, V	450					
12.	Climatic modification, category of accommodation	N1					
13.	Protection against influence of an environment and contact with current carrying parts	IP34					
14.	The working range of temperature, C°	-45...+60					
15.	Weight (without FPP-1), kg, no more	50	60	68	72	80	99



Protective potential sensor

Contact us for more information!



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