Corrosion Solutions ElectroTechCP™ MCU / RMS

Impressed Current Cathodic Protection Product Datasheet



structuraltechnologies.com + 1-410-859-6539

Description

The Main Control Unit (MCU) along with our flagship Remote Monitoring System (RMS) consists of a SCADA based software running on a Windows platform capable of performing numerous tasks related to cathodic protection monitoring and control functionalities. These functionalities include complete output control, data logging scheduling, data analysis, and many more.

The SCT is designed specifically for the monitoring and control of ElectroTechCP[™] cathodic protection systems. Each individual system software interface is tailormade to the size and design of the cathodic protection system for each project. With the RMS, the client's entire cathodic protection control and monitoring requirements are met whether it is for concrete structures, tanks, underground plant piping, cross country pipelines, or all together under one control terminal. This minimizes onsite time and reduces operating costs while giving unprecedented day-to-day monitoring and historical data representation in both numeric and graphical forms. This is in addition to providing access to every aspect of the cathodic protection systems installed.

STANDARD MCU SOFTWARE FEATURES

The software consists of several screens in which the user interacts with the system. All control and monitoring functionalities are clearly identified on the screen. An example of the software package is provided as follows.

🛶 · 🔘 · 💑 · 🔘 • 🐜	5	m· 🕹 👥 · c
ur Log In Levi 1 Levi 2 Levi 2 Levi 2 Levi 2	CATHODIC PROTECTION Seawater Cooling Towers And Pump Stamp Area Varianters Page Reports Microsoft	electrotechCF
		Cifera Constance
		Citeda Compliancia Malanta Compa
		Elibera Congrisono Molania Congri Degorárization
ugos		Ellista Citylaino Maank Centra Deglatattin Janos Hotap

Home Page

The home page is the main navigation and access page of the software. This is done via buttons that take the user to different functionality pages of the system. It also functions as the multi user log-in page giving different access privileges to different users. All is configurable according to each client's needs and security requirements.

Structure/Plant Overview & Navigation

Screens

This screen usually shows the structure or plant overview which serves as a navigation screen to different sections of the structure or plant. The user navigates to different areas by clicking on the area that is required. The following is a screen shot taken from the Kayan Twin Cooling Tower project for reference.

The screen is completely configurable to each client and project. It is usually followed by any number of graphical pages that are accessed in a way that reflects the hierarchy of the structure or plant enabling the user to zoom into particular areas of the structure or plant in an intuitive way.



•	0	÷ 🕺	0	٥			1												Π	1	\$ 1	8	. 0
CONE	Derign	Max Carrier	Carret	- City Mattage	Sp. Curr Denezio	:	RE1	852 (mV)	RE3	RE4 (mV0	RES ImV	RIG	RE7 In VI	REB	RES (mV)	RE 10	RE11	RE 12	RE13	RE 10	RE15	RE 16	
Jarie	d Zan							-		-		-	-		-		-		-			_	
10	2556	50.15	0	0.0	2	ON .	2	11	8	3	2	1	1										
28	3830		0	0.0	0	CH OFF	8	8	8	3	8	8	8										
38	3996		0	0.0	3	뾺	0	1	8	3	8	1	\$										
49	2020		0	0.0	0	CN OFF	8	\$	8	3	8	1	1										
58	2649		0	0.0	- 4	OFF	00	8	8	0	8	0	8										
60	2754		0	0.0	0	왉	- 8	:	8	3	8	1	:										
79	4070		0	0.0	4	OPP OPP	8	\$	8	3	8	1	\$										
88	3900		0	0.0	3	OFF	ê	ŝ	8	3	8	8	ŝ										
90	4070	5295	0	0.0	2	뾺	:	1:	8	3	8	:	:										
		Zones																					
114	6676		0	0.0	0	왥	8	8	8	3	8	- 8	\$										
2₩	9570		0	0.0	2	CP1	8	:	8	3	8	-	:										
2W	5914		0	0.0	2	CPT CPT	ê	8	8	3	ŝ	8	8										
***	4743	6435	0	0.0	0	왉	:	1	8	3	8	- 8	:	8	1						-		
5W	4749	0439	0	0.0	2	CP1	:	1	8	1	8	1	1	8	1						-		
610	6914	7720	0	0.0	0	OFF	ŝ	ŝ	8	å	ŝ	ŝ	ŝ										
																				_		_	
																				6	p f afte	. Net	7454
																						electro	sch

Zone/Area Summary Page

The Zone/Area Summary page gives the user a summary of each zone/area within a specified section of the structure or plant. It can be considered as an all-in-one page giving all related information for each zone/area, including design and operating current and voltage, operating current density, as well as the last RE On/Instant-off values obtained. This page also serves as a second route to access individual zone/area pages.

©2016 Structural Technologies, LLC

Corrosion Solutions ElectroTechCP™ MCU / RMS

Impressed Current Cathodic Protection Product Datasheet

Struc'tur'al

structuraltechnologies.com + 1-410-859-6539

Power Supply Outputs & Monitoring Page(s)

This is the main page which enables the user to set/read all operational parameters for each zone/area; it also allows the user to take RE readings (On and Instant-off values). Another feature of this page is the ability to analyze depolarization tests that were conducted by the system. This enables the client to make changes to each zone's outputs based on previous depolarization analysis. Such unprecedented analytical insight to each zone's depolarization data onsite saves time and resources that would otherwise be used to analyze each zone depolarization results off-site, requiring another visit to the site to configure the outputs accordingly.



state on settings i en	mum SKD Millecor	di Mainuni 200 Milecovi	Report Statin					
Cooling Tower 4	101.00	Etange Valant DV		STATIS	MOC DIE			
Develope Treasur 5	101.00	Charge Index104	there is a straight s	Disable	The Ave IN 1919 IN 1919			
			Deput Fast Loss	Disaided	Tree days 20 70753 62:000 00			
			Dennil Last Loss Fraft	Disabled	Two Apr 28 1010 10:00-00			
			Deput Noneual Long	Disabled	Time Apri 29 2010 88 080 88			
			Depol Long Log:	Emphand	Tues Apr 28 2010 88 088 29			
			Depoil Log find:	Disabled	Tom Apr 28 2010 10:00.00			
			Destroyeestal	Enabled	Man Jan 25 2010 16/02/00			
			Daily Log Settings	Hermony 604	exmet Maranami 4000 Mexmet (7)			
			Log Internal	1440 miles	3445 × 2 0000 + 4			
			Time Researching	The Oct 1	\$ 2000 IN COLUMN 1 1 1 1 1 1 1			
			Thomas Logitshonat	Manaating	Laging OF			
			Daily Logging Enabled					
			Ling Out 10k					
			Set Logout Time to	1 Minute				
			that kingsout time to	10 Minutes				
			Set Logout Time to I	50 Minuted				
Ar Copy			Turn Logistit Time Di	1.1	Tue Logisk Time DE			
mart title Heatery Gitch to	Copy Log Files	Copy All Logaria Dale To 1358	Logo	ut lide taxe	10 Min.			

System Settings Page

This page allows the user to create important settings for the system, such as instant-off timing and daily log intervals, as well as accessing the stored data. Other settings will be available based on the client's needs and requests.

Depolarization Settings Page

This page allows the user to establish important settings for the automatic depolarization, scheduling the various intervals for the depolarization sequence. This page is only available for projects with concrete structures. The SCT software package is a highly customizable package with many features available upon request.



STRUCTURAL TECHNOLOGIES offers various types of ElectroTechCP[™] remote monitoring and control software/hardware solutions. Depending on the client's specifications and budget, any solution offered can be customized to the client's needs. The MCU/RMS software package is a highly customizable package with many features available upon request. The provided screen shots are mere examples of what can be offered. Please contact STRUCTURAL TECHNOLOGIES to provide you with a detailed presentation of all our products, and to discuss the requirements of your system.

STRUCTURAL TECHNOLOGIES, LLC warrants its products to be free from manufacturing defects and to meet STRUCTURAL TECHNOLOGIES' current published properties when applied in accordance with STRUCTURAL TECHNOLOGIES' directions and tested in accordance with STRUCTURAL TECHNOLOGIES Standards. User determines suitability of product for use and assumes all risks. Buyer's sole remedy shall be limited to the purchase price or replacement of product and excludes labor or the cost of labor. Any claim for breach of this warranty must be brought within one year of the date of purchase. No other warranties expressed or implied including any warranty of merchantability or fitness for a particular purpose shall apply. STRUCTURAL TECHNOLOGIES shall not be liable for any consequential or special damages of any kind, resulting from any claim or breach of warranty, breach of contract, negligence or any legal theory. STRUCTURAL TECHNOLOGIES assumes no liability for use of this product in a manner to infringe on another's patents.