GuardTec IoT

GuardTec Solenis Cloud Manual Guide 1.0

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GuardTec Solenis Cloud Manual Guide 1.0

Introduction

1.1 Purpose of the User Manual

The purpose of this user manual is to provide a comprehensive guide on how to use the GuardTec Application. It aims to help users understand the application's features, functionalities, and how to navigate through the interface effectively.

1.2 Scope

This user manual covers all the essential aspects of the web application, navigating the user interface, using core features. It does not cover any backend or development-related topics.

Using The Web Application

In this section, we will cover the basic functions and operations of the GuardTec Application

1. Home Page

The home page is the starting point of the application. The navigation bar appears at the left of the application and provides quick access to essential functions such as Home, Groups, Alarms and Devices. At the Home page there are two widgets: Welcome widget and Device Insights widget.

In Welcome widget, there are three icons available:

 Add additional GuardTec device : User can request for a new device addition belonging to an existing site or request for a new site.

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Additional Details		
Basic information		
First Name *	Last Name *	Emsil *
Rhu	Rans	memoryalicon tractoriaci lemial.com
Company Name *		
Pond Angels	Phone Number	
Site Details ④ Add		
and manue (rednien)		

- Download Registration and start-up information: Download User Manual guide for user to start-up with the application.
- Device Manual Guide: Download Device manual guide.



In Device Insights widget, the user can view all the devices, Connection Status, pool name, Chlorine Feeder Status 1, Chlorine Feeder Status 2 and Acid Feeder Status. The user can filter using the device ID and configure table columns as required.

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GUARDTEC			A.C.	<u> </u>		O Add widget 💉	Edit 🛛 🛠 Full screen	More *
✿ Home	DEVICE IN	ISIGHTS						
Groups ~	No filte	rs 2 of 2 items				III Configure colur	nns Search	٩
🔔 Alarms		Connection	Pool N	Devic	Current Status	Chlorine Fee	Chlorine Fee	Acid Feed
L Devices		Offline O September 22 2023 12:50 AM	Fort Totten Pool	sol208593C000	7.8 / 800.0 / <mark>7.99</mark>	Running ⁽¹⁾		Feeder Standby ①
		October 10 2023 1:03 AM	Swim Training Pool	sig208593A000	8.3 / 0.0 / - 0	Low Flow O	•	Low Flow O
	1 - 2 of	2						

2. Groups

The user needs to click on Groups to see the details of Customer, Site and Device hierarchy.

SOLENIS	⊡ Gro	ups				Q		
Strong bands. Trusted solutions.	Sub		tters 2 of 2 items				Configure	Add group
GUARDTEC	Gub						j	
Home	Тур	e	Name	Model	Alarms			
••• ••	-	I.	Aloha Pools Ltd					
Groups ^	-	I.	Paddock Ltd					
Aloha Pools Ltd 🛛 👻								
Paddock Ltd 🗸 🗸								
🔔 Alarms								
Device								

Under Groups, the user can view the complete hierarchy:

- The Top Folder represents Customer/Company name.
- The Next folder in the hierarchy represents a Site. Customer can have more than one site.
- Under Site, devices are associated.
- If no device is associated to the user then the user will not see a device and its data.

SOLENIS	E Groups					P. Singh
Strong bords. Trusted solutions.	Subassets No filters	٥		III Configure co	lumns	 Add group Reload
🔒 Home	Туре	Name	Model	Alarms		
Groups ^						
🔔 Alarms		Ō	No items to display. Add your first group or assign devices using the buttons on the action bar.			

3. Dashboard

The dashboard is the screen you see clicking on Customer, Site, and Device under Groups.

This dashboard gives the summary of all site's, Chlorine Briquette over a selected period (Week/Month/Quarter) of time using three dashboards: Overall Weekly Consumption, Overall Monthly Consumption and Overall Quarterly Consumption.

Overall Weekly Consumption Workly Consumption Overall Quarterly Consumption

Overall Consumption of all Sites

Click on the customer group in the left navigation bar.

It has two sections:

1. List of Facilities/Sites

Each row gives the Consumption and percentage difference of a particular site's Chlorine Briquette over selected period (Week/Month/Quarter) of time.

	Chlorine Briquette/Tablets	Chlorine Briquette/Tablets Consumption
Swiss Coast	391 lbs	122% Up

2. Consumption section

This section will have widgets for the Overall Consumption and Percentage Difference of Chlorine Briquette over a selected period (Week/Month/Quarter) of time for all sites of a particular group.

SOLENISDEV	■ Paddock Ltd ■ Groups	९ 🏢
Strong bonds. Trusted solutions.	🗰 Overall Weekly Consumption 🗰 Overall Monthly Co	nsumption Uverall Quarterly Consumption
Gu		● Add widget 💉 Edit 😂 Full screen 👔 More▼
GUARDTEC	LIST OF ALL SITES/FACILITIES	
🔒 Home	Chlorine Briquette/Tab	lets Chlorine Briquette/Tablets Consumption
📛 Groups 🛛 🗠		
Aloha Pools Ltd 🛛 🗸	Swiss Coast 391 lbs	122% Up
Paddock Ltd 🛛 🗠		Items per page: 5 💌 1 - 1 of 1 < >
Swiss Coast ^		
😑 🛛 Beach Pool	ESTIMATED CONSUMPTION OF ALL SITES	CONSUMPTION PERCENTAGE DIFFERENCE
🔔 Alarms	Chlorine Briquette/Tablets	Chlorine Briquette/Tablets Consumption
Device	391 lbs 0	122 % up ©
	Units in Ibs 🗸	Percent change between the last two Weeks.

Overall Consumption of a Site

Click on the site under Customer/Company to see the Site wide dashboard.

This section will also have three dashboards: Overall Weekly Consumption, Overall Monthly Consumption and Overall Quarterly Consumption to show the Selected Site Consumption and Percentage Difference of Chlorine Briquette over a selected period (Week/Month/Quarter) of time for all Pools in the selected site from the overall consumption Page.

It has two sections:

1. List of pools

Each row gives a summary of a pool's connection, current status, acid and chlorine feeder status and Chlorine Briquette value over a selected period (Week/Month/Quarter) of time.

If the consumption values of a pool cross the typical range, the row will be highlighted red as a warning indicator.

Pool Name	Device ID	Connection Status	Current Status (pH / ORP / FAC)	Chlorine Feeder 1 Status	Chlorine Feeder 2 Status	Acid Feeder
Fort Totten Pool	sol208593C0003C	Offline () September 22 2023 12:50 AM	7.8 / 800.0 / <mark>7.99</mark>	Running ⁽¹⁾		Feeder Sta
Swim Training Pool	sig208593A0005F	October 10 2023 1:03 AM	8.3 / 0.0 / - ①	Low Flow		Low Flo

2. Consumption Section

Contains the consumption and percentage difference (from last week/month/quarter) of a selected site, and the Chlorine Briquette over a selected period (Week/Month/Quarter) of time.

SOLENIS	■ SWISS COAST ■ Groups > Paddock Ltd	۹ 🏢
Strong bonds. Trusted solutions.	III Overall Weekly Consumption	onsumption
Gu	1	🛛 Add widget 🕜 Edit 🔅 Full screen 👔 More 👻
GUARDTEC	LIST OF ALL POOLS	
☆ Home	Pool Name Device ID Connection Status Current Status (pH / ORP / Chlorin FAC)	ne Feeder 1 Status Chlorine Feeder 2 Status Acid Feeder
Groups ^		Disables O Config Fr
Pond Angels 🛛 👻	Deach PODI SUZU003440/0040 October 6 2023 5:00 AM 0.0 7 190.0 7 0.1	Disabled - Comig Er
Paddock Ltd ^		Items per page: 5 💌 1 – 1 of 1 < >
📛 Swiss Coast 🛛 🗠		
😑 🛛 Beach Pool	ESTIMATED CONSUMPTION OF SITE CONSUMPTION PERCENTAGE DIFFERENC	ie In the second
🔔 Alarms	Chlorine Briquette/Tablets Chlorine Briquette/Tablets Consumption	n
Devices	3885 lbs 0 339 sup 0	Ŧ
	Units in bis - Percent change between the last two Months.	ω

Overall Consumption of Pool

This section will have five dashboards: Overall Weekly Consumption, Overall Monthly Consumption, Overall Quarterly Consumption, Pool Current Status and Consumption Trend Dashboards to view the following details:

- Viewing the Consumption and percentage difference of a pool's Chlorine Briquette value over a period of time (week/month/quarter).
- Viewing the Chlorine and Acid consumption trend graph.
- Viewing the current pH, ORP and Free Chlorine value of a pool in Gauge chart.
- Viewing the Feeder Status
- Viewing the pH, ORP, FAC trends.
- Viewing the Last Calibration Data and Trends
- Downloading the Raw data for Acid/Cl Consumption
- Downloading the Raw data for Current Status (pH/ORP/FAC)
- Downloading the Raw data for Calibration Results.
- 1. Pool Current Status Dashboard

This section will have different widgets:

- Viewing the current pH, ORP and Free Chlorine value of a pool in Gauge chart.
- Viewing the pH, ORP, FAC trends.
- Viewing the Chlorine and Acid consumption trend graph.
- Viewing the Last Calibration Data and Trends
 - A. Current Status

Gives the current value of pH, ORP and Free chlorine value for a pool. The date displayed in gauge chart will be highlighted red if it is not showing current date.



B. Feeder Status

Gives the Feeder status of the current day or date, and it will be highlighted red if the device is disconnected.

FEEDER STATUS		
Boost pump	CCH Elite	Pulsar pH Control
Booster Flow ^①	Disabled ^①	Config Error ^①
	September 12 2023 5:04 /	AM

- C. Current Status trend graph
 - a. User can view a graph plotted pH/ORP/Chlorine value trend.
 - b. User can see the trends for different time intervals using Filters like Day/Week/Month/Quarter.
 - c. The Min and Max Range Are coming from the Device Configurations (Static Packets)
 - d. User Can Also Download Raw Data of Current Status(pH/ORP/FAC) using Download Results button.



- e. Calibration Section Calibration section has 2 tabs:
 - i. Last Result
 - ii. Trends

You can view the Last Calibration Data of:

- iii. ePH
- iv. eCL
- v. eSpinTouch
- vi. ePH2pt

The user Can also Download Raw Data of Calibration Results using Download Results button.

1. pH

Last Result

Last Result Trends						
	pH CL	SpinTouch	pH2pt			
Test Time: September 12 2023 4:51:45	AM					
Raw Probe	рН 🛈 : 8.5	Calibr	ated pH	D : 8.9		
	offset :	7.95 S	Slope : 27	5		

Trends



2. Cl

Last Result

Last Result Trend	ds
	pH CL SpinTouch pH2pt
Test Time:	: September 12 2023 4:51:45 AM
	Raw Probe Chlorine ①: 9.5 Calibrated Chlorine ①: 9.9
	offset : 19.95 Slope : 265

Trends



3. Spin Touch

Last Result



Trends



4. pH2pt

Last Result

Last Result	Trends						
		pH CL S	pinTouch	pH2pt			
	Test Time: September 12 2023 4:51:45 AM						
	Raw Probe pH	© : 10.9	Calib	rated pH 🤅):9.9		
		ph7.0 : 20.7		ph4.0 : 19.7	7		
		offset: 25.6	Temper	ature : 135			
		Slope : 25.6	6				



Consumption Dashboard

1. Chlorine and Acid consumption and trend graph

The user can download the Raw Data of Acid/Cl Consumption using the Download Results button.



Alarms

The user can click on Alarms to see the alarms coming from the device. Alarms are categorized as Major, Minor, Critical and Warning depending upon the severity of that alarm. The user can see the action required related to alarm. The user can view the alarm history by turning on "show cleared alarms button".



Devices

• The user can also update the meta data of the device by clicking on the Actions button in the list. The user will not be able to update the Device ID but can update other meta-data like Facility Name, Pool Name, Aquatic Venue, Email, Location and Address.

SOLENIS	E Device Management				C		
Strong bonds. Trusted solutions.					● Add widget 💉 Edit 😂 Full screen 👔		
Gu	DEVICES SUMMARY						
GUARDTEC							
🔒 Home	Search by Device	D or Pool Name					
Groups ~							
🔔 Alarms	Device ID	Facility Name	Pool Name	Type of Location	Email Recipients	Copied Recipients	
Devices	sig208593A0005F	Terri's Swim Academy	Swim Training Pool	Private Pool	-	mu@ncl.com	
	sol208594D0004D	Swiss Coast	Beach Pool	Municipal Pool	venkatesh.devan@hcl.com, ajithku	vdevan@contractor.sole	
	sol208593C0003C	Haffen Aquatic	Fort Totten Pool			-	
					- Items per page: 5 → 0 c	of 0 < < > >	

- The user can update Facility name which is mapped as Site name, Pool name as Device Name, email and Location, Aquatic Venue, and Address (optional fields).
- The user should make sure to update the To and CC emails and verify that the subscription is active: without an active subscription, the respective user will not receive email notifications.

vice Updation		Device Updation				
Device Name sig208593A0005F	Facility name Terri's Swim Academy	Email Recipients	authingholcon			
Pool Name Swim Pool	Aquatic Venue Private Pool	Conjed Recipients				
arthemachindan () poo	umsrahimelaan 🛞	vdiwan@contractor.wawna.com	Location			
ritu@hcl.com		Address 1113 Haul Road, Saint Paul, M +1- 651-229-0685	USA Vinnesota-55102			
nail Subscription	Delhi	Close Submit				

Email Notification

Users will receive email notifications to the registered email address when there is an alarm coming from the device, if the email subscription is enabled for the user.

Contact Information

If you encounter any issues or have questions that are not addressed in this manual, please contact our support team:

Email: mcticket@solenis.com