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# **Unitronics' Demo Case Guide**

Technical Support Document 12/16

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### **Overview: Unitronics Demo Case**

Welcome to the Unitronics Demo Case.

This valuable sales aid enables you to easily demonstrate the powerful range of features that Unitronics HMI + PLC All-in-One controllers bring your customers.

Each controller in the case is pre-installed with a program that shows its feature range, including communications with external devices. This document walks you through scenarios that allow you to showcase Unitronics controllers.

The Demo Case contains the following controllers and external devices.

Demo Case Contents

- 1. PT100
- 2. Samba 4.3"
- 3. IP Camera
- 4. Vision 700
- 5. RFID Reader + RFID Card
- 6. Emergency Push button
- 7. UniStream 10.4"
- 8. Tower Light



Inside the Demo Case

9. Power supply 24V, 2.5A.

10.Wireless Router, TP-link model TL-WR740N Note that the three controllers and the IP camera communicate using Ethernet, via the router.



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### Using the Demo Case

On the rear of the Demo Case, locate the power socket and switch. Connect the case to a power source and switch it on.

Notes

- Connect the Demo Case to a power source using an IEC 320 C13 or C14 cable.
  - The power socket has a built-in fuse + 1 spare.





Inside view of the Demo Case



#### Power-up/Main Screens

After power-up, the HMI panel of each controller displays the main screen. The main screen offers two options: General Demo and Market Segment.

The General Demo application of each model enables you to demonstrate the key features of Unitronics PLCs.

**Note** Pressing the **General Demo** button on any of the controller panels, which are linked via Ethernet, invokes the General Demo program on all three panels.



### Connecting to your Demo Case via Wi-Fi

The Demo Case serial number is the name of the wireless connection of your router. The serial number is located inside the Demo Case on top of the router. To connect to the case via Wi-Fi, open Wireless Network Connection and connect to the serial number name.

Router address 192.168.1.1 User name: admin Password: admin Default VNC port is 5900



### **Emergency Push Button**

Pressing the button will switch all three PLCs to Emergency Stop mode. To release them from Emergency mode, turn the button to the right. This is a simple way for you to verify that all of the PLCs are communicating.





### **General Demo - UniStream**

#### Multi-Language Support

The screen of the UniStream 10.4" displays language buttons in the form of flags.

To demonstrate Multi-Language support, press a flag to switch languages, and continue with the demo.



Press on General Demo to start demonstrating UniStream Features:



#### Web Cam

You can view streaming video from the camera installed on the Demo Case panel.

Note that you can connect an IP camera (RTSP) directly to the UniStream itself, or via a switch.

This saves time and effort—no need to install a dedicated PC system. Note that you can easily place an IP Camera inside a machine to monitor ongoing procedures

- Show inaccessible or remote parts of a machine or process
- Excellent for monitoring Hazardous Locations
- Safety & Security Applications
- Enables Centralized Operator Location

To demonstrate this feature, press on the Web Cam icon.



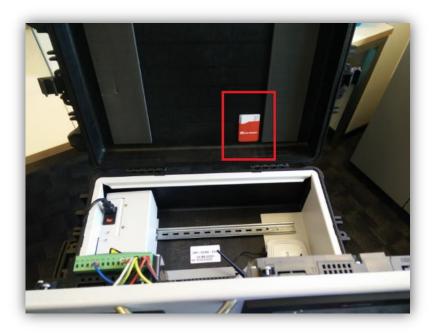
### RFID

Worker Identification RFID cards identify staff for doors/elevators/labs/high security level floors, Time clock. You can also link an RFID reader to add layers of security and permission levels to the control application.

Note that the RFID card reader is physically connected to the V700 inside the Demo Case. The data is sent to the UniStream via Ethernet.

The RFID card supplied with the Demo Case is located in the red pocket inside the case.

Note that most RFID tags are compatible with this specific RFID reader.



The embedded application allows you to add RFID cards, assign them to a user and even add animation picture that will be displayed when a registered tag is swiped.

You can also assign each tag different access levels and permissions, and adapt the controller's applications accordingly.

To start the demonstration, press on the RFID icon.



To add a new RFID tag: Swipe the card.



Enter the Administrators Password (default: 1111).



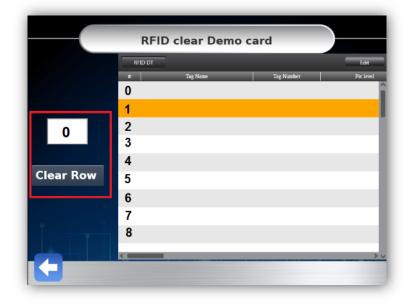
- Assign the card a "User Name" by pressing on the "Enter New Name" text box.
- To set a "User Picture", navigate between the pictures using the "Up" and "Down" buttons.
- Press "Save New Card ID" to assign this user name to this card ID.



To edit or delete users, press the Management icon on the bottom right of the screen



To delete a User, press the row number to select the row, and press the Clear Row button.



To edit a User name or picture, press Edit to enter the Data Table.



#### **Communication Protocols**

UniStream supports a broad range of protocols over Ethernet, RS232/RS485, CANBUS, including:

Press the Communication icon. The application displays protocols supported by UniStream.

- MODBUS TCP/IP and RTU
- UniCAN
- CANopen
- CAN\_Layer2
- Email
- FTP
- VNC

- Ethernet/IP
- SNMP V1,V2C,V3.
- 3-party protocols
- TCP RAW
- UDP RAW
- SMS & GPRS
- BACnet & KNX via Gateway

<image><complex-block><complex-block>

Communica	tion	
Ethernet/IP	EtherNet/IP	
SQL		
Modbus RTU/IP	Modbus	UniCAN Multi-Master
SNMP V1, V2C, V3		CANbus network, up to 60 PLCs
CAN Open	CANopen	
UniCAN		Ardines P
CAN Layer2	(m)	
FTP Server & Client		3G <sup>m</sup>
BACnet & KNX Via Gat	eway	$\cap$
VNC Server & Client		
SMS / GPRS		
🏠 🕓 L	GPRS	

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#### **Remote Access via VNC - UniStream**

UniStream functions as a VNC Server. This means that, via an Ethernet/internet connection, you can access UniStream from anywhere in the world, and both view and control the controller.

To demonstrate the feature, you must have a VNC client application on your mobile , tablet or PC which you can download from the iOS App , Google Play stores or web.

To demonstrate Remote Access:

- 1. Press the Remote Access icon.
- 2. Set up your VNC client application to communicate with UniStream. The IP address of the panel is set to 192.168.1.2, and the default VNC port is 5900.
- 3. Connect your mobile device to the Demo Case Wi-Fi network. The Wifi network name is the demo case serial number. You can find the serial number on a sticker on top of the router, and also on the case itself, as shown on page 2.





R	emote Access
Access y	our UniStream™ from anywhere at anytime
	Look for a VNC Mobile App in:
IP Address:	192 168 1 2
Subnet Mask:	255 255 255 0 See App Store
Default Gateway:	192 168 1 1 Window Prove Store
*	UniStream

#### Web Server

UniStream offers a built-in webserver that supports dozens of simultaneuos connections. Users can access UniStream via a standard browser, and perform tasks – in real-time according to the role and password you assign via UniStream's multi-level security system.

The webserver functions independently of the HMI application.

You create elegant Web pages in UniLogic, via drag & drop—no HTML required. User controls and widgets enable remote users to view & enter data using any web browser.

In addition, you can save HMI screens as Web pages.

To demonstrate the Webserver:

- 1. Press the WebServer icon.
- 2. Connect your mobile device/ PC to the Demo Case Wifi network, as shown on page 2.
- 3. Open your mobile/PC browser, and connect to UniStream; the IP address of the panel is set to 192.168.1.2.
- 4. Browse to the water management page and view & change values that will appear both on the UniStream HMI and Web page



### **Data Sampling**

Use the Data Sampler to log time-sensitive dynamic data such as output values. Then, display the data – simply drag and drop Trend and/or Gauge widgets onto your HMI screens.

The Trend widget enables you to display graphs of real time data and history. The viewer can also take screenshots of the Trend and page through the data history.

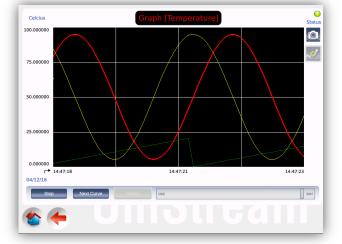
Dynamic Gauge widgets are an especially effective way to display live data -

Note: a Micro SD must be installed in the controller in order to log.

To demonstrate Trends, press the Data Sampler icon, and then press Trend Sample.

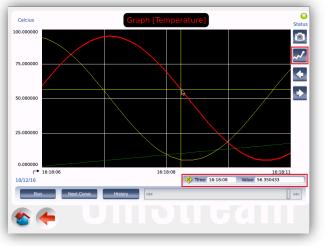


While the Trend runs, press the buttons to show the paging features and screenshot function.



To browse your sampling History, press on the  $``\mathsf{Run}''$  button.

Pressing on the "View Data Point" button, will enable you to view the X, Y value of the Trend



To demonstrate Gauges, press the Gauges icon.



#### Languages

UniStream's multi-language support enables you to set up to 24 Languages for one project, including character-based Asian languages (Chinese, Japanese, Korean).

You can switch Languages in an instant, including the virtual keyboard, at the touch of a button - while the application is running.

This is a great benefit for OEMs, who can produce a single machine for international markets.



To demonstrate Languages, navigate back to the Main screen and press the flag icons to change the language, as shown on page 5.

### System Simulation

screen.

screens.

This simulator features screens that were built and animated in UniLogic's HMI editor.

1. Press on 'System Simulation' icon to run the 'Bottling Factory'.



Filling

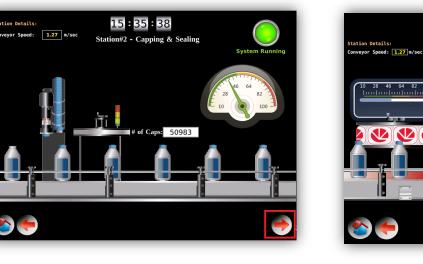




15<mark>:</mark>41:24

Station#3 - Labeling

# of Labels: 49802



Capping

2. Start the 'Bottling' process by pressing

the button on the top right of the

Note that UniStream plays a sound

3. Press the arrow at the bottom right of the screen to navigate through the

when the process is turned ON and OFF.

#### Slideshow: HMI Panel Showcase

Show the high quality of the HMI panel, press on the Slideshow icon.

You can use the Slideshow as a screensaver between demonstrations.



#### Sound

Sound support, bulit-in speakers, and a 3.5mm audio jack for your P.A. system are an added value of UniStream.

You can incorporate voice instructions, alarm notifications, or even a welcome greeting and trigger them at run-time. UniLogic includes a rich audio library - plus you can import your own voice recordings in your own language.

To demonstrate, press on the Sound icon, and press the sound buttons to play .mp3 files.



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### Video

UniStream can play MP4 videos. Import videos from the web or even use your own videos to instruct, promote, or advertise to viewers.

Some potential applications include:

- Operating instructions for complicated tasks
- Interactive Troubleshooting
- Maintenance

**Note** Videos under 4MB are stored in UniStream; larger files on the SD card.

To demonstrate, press on the Video icon, then watch and listen.



### PDF

UniStream offers a built-in PDF viewer, enabling you to display your machine installation instruction, specifications, user manuals, and even troubleshooting guides

To demonstrate, press on the PDF icon, and page through a .pdf manual.



### UniApps

UniApps is a tool suite that is embedded in the operating system of the controller. UniApps enables you to perform a number of operations. For example, you can:

- View and edit system data.
- Run updates to upgrade different aspects of the controller.
- View and edit communication settings.
- Force I/O values.
- Implement working mode actions such as resetting the controller.

You can enter UniAps at any time without regard to what is currently displayed on the LCD screen. UniApss can be protected by user name and password.

Press on the UniApps icon to learn more.



To enter UniApps:

1. Press the right upper corner of your UniStream panel for 3 seconds.

Select UniApps, and navigate through the system.

To exit back to your application, press the right upper corner of the panel for 3 seconds.



#### Alarms

UniStream offers a built-in Alarm system, equipped with an "Alarm Status Viewer" and "Alarm History". Alarms can be trigger via digital (bit) or analog (value), according to your needs.

To demonstrate the system:

- 1. Press on the Alarm icon, Alarm Status Viewer screen opens.
- 2. Press on the Simulate Alarms button.

NISTREAM <sup>™</sup> →	Ala	rms	Simulate Alarms Alarm Summary
Veb Cam RFID Formunication Remote Server	Severity Alarm Grou	Alarm Statu	Status   State   ACK   Status   State   ACK
	Critical 1 0	Tank1 Water Level is high	Enabled OFF No 🧿
	Major 2 0	Tank2 Water Level is high	Enabled OFF No 🧿
Data ampler Gauges Gauges Languages System Simulation Side Show	Minor 3 0	Pump1 Pressure is high	Enabled OFF No
Show	Minor 4 0	Pump2 Pressure is high	Enabled OFF No
	Major 5 0	Boiler high temperature	Enabled OFF No
d Video PDF PDF - UniAp Alarms	Critical 7 0	Tank Level is High	Enabled OFF No

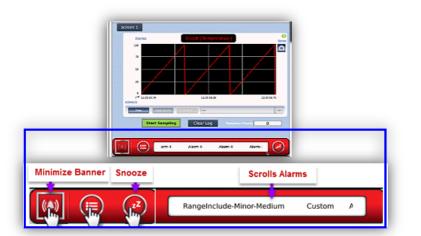
- 3. This opens the Web Server screen, to generate Alarms, press the Start buttons.
- 4. When Alarms have been generated, press the Alarms Summary button to view all Alarms in the list.



Severity	ID	Name	Value	Date / Time	Change	ACK Pending	Info	
Major	2	Tank2 Wateel is high	501	12/4/16 15:57	HI ON	No	()	
Critical	1	Tank1 Wateel is high	504	12/4/16 15:57	HI ON	No	1	
Major	2	Tank2 Wateel is high	100	12/4/16 15:57	OFF	No		
Critical	1	Tank1 Wateel is high	91	12/4/16 15:57	OFF	No		
Major	2	Tank2 Wateel is high	501	12/4/16 15:56	HI ON	No	1	
Critical	1	Tank1 Wateel is high	504	12/4/16 15:56	HI ON	No	1	
Minor	3	Pump1 Pressure is high	52	12/4/16 15:55	HI ON	No	0	
Minor	4	Pump2 Pressure is high	72	12/4/16 15:55	HI ON	No	0	

Note that a programmer can decide to display an Alarm banner that notifies users when an alarm triggered, including Alarm Details and a Snooze and Minimize button.

5. To exit the system and turn off Alarms, return to the initial screen and press on "Simulate Alarms".



\* Picture for reference only. The Alarm Banner feature is not implemented in the Demo Case application.

### General Demo - Samba "Wrapping Machine"

This demo simulates a Wrapping Machine application.

You can set the application to run manually or automatically via the Manual / Automatic switch shown below.

When set to automatic (A) the system operates independently. You can change wrapping direction on a push on the Wrapping Direction switch.

When set to "Manual" (M), you can control the wrapping movement (right or left) via the Left and Right Jog buttons.

The physical light tower on the case will start automatically in accordance with the bar graph.



### **General Demo - Vision700**

Press the icons to run the different features.



### **Slideshow**

To show the high quality of the HMI panel, press on the Slideshow icon.

You can use the Slideshow as a screensaver between demonstrations.



### System Simulation

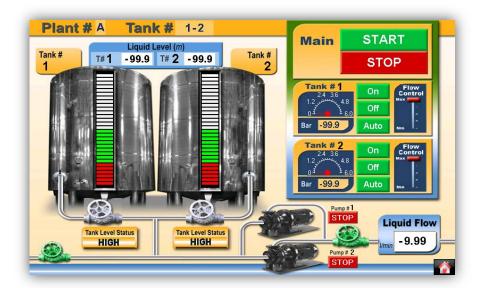
This simulator features screens that were designed in VisiLogic's HMI editor, using the extensive free graphic library.

1. Press System Simulation on the Home screen.



2. Press Start. The tanks will 'fill'; use the switches to control the valves

You can control the filling and draining of the tanks using the controls to the right. Pressing the "On" button enables you to adjust the slider to control the liquid flow.



### Languages

The String Library is a powerful feature enables you to switch languages in an instant.

1. Press on the String Library / languages icon, and then press the flags.



2. Switch to other screens to view the language change.

		Language	_StringLib		
String	Library	LNG			RONICS
English	Spanish	French	German	Czech	Hebrew
Thei	Italian	Greek	Russian	Turkish	Polish
?	â	Dutch	Bulgarian	Finnish	Portuguese
	1			1	

### **Data Logging**

You can collect, log, and manipulate run-time data into Data Tables. Data logs are stored on the V700's SD card. Note that a Micro SD must be installed in the PLC card slot in order to create logs. (A Micro SD is supplied already inserted in the V700)

To demonstrate this feature, press on the DataLogging icon.



To start logging, press on "START DT Logging" button. This will enable/disable logging Tank Levels into a Data Table.

You can also log data to a .CSV file, by pressing the "START Logging to CSV" button.

Dat	ta L	ogging, D	)T/SD			NICS		
	SD Inserted							
	ST.	ART DT Loggi	ng	START Logg	ing to CSV			
P	low	Date	Time	Tank1 Level	Tank2 Level			
9	99	Text_To_Di	Text_To_Di	99.9	99.9			
9	99	Text_To_Di	Text_To_Di	99.9	99.9			
9	99	Text_To_Di	Text_To_Di	99.9	99.9			
9	99	Text_To_Di	Text_To_Di	99.9	99.9			
9	99	Text_To_Di	Text_To_Di	99.9	99.9			
	?	â						
-								

### **Communication**

Vision HMI + PLC controllers support a broad range of communication protocols over Ethernet, Serial and CANBUS, including:

- MODBUS TCP/IP and RTU
- CANopen
- J1939
- SNMP V1
- TCP RAW
- SMS & GPRS

- UniCAN
- CAN\_Layer2
- Email
- 3 party protocols
- UDP RAW
- BACnet & KNX via Gateway

Press on the Communication icon, and then press on each one of the communication options to show the communication functionality.

	G	eneral De	emo		_
Slide Show	System Simulation	String Library Languages	Data Logging DT,SD	Communication	
Trends	Alarms	Clock	RFID	Screen Saver	0
					-
Communic	ations		<b>1</b>	INITRONICS'	
					I
Ethernet	SMS	GPRS	CANbus	MODBUS	
💽 🍤 👔					

### Ethernet

Simulate sending an Email capability.

Ethernet	N N	
Email Fu	action:	
Mail Serv	er Address: 192 168 1 2	
From:		
To:		
Subject		
Content:		
Conn	ect Mail Server Mail was not sent: error	
≥ ? ▲	Mail was not senterror occured while sending e-m end of deta/closing the e-m	ail ail

### <u>SMS</u>

Note

Vision controllers can communicate via SMS text messaging

In upper section of this screen, press "Initialize Modem", enter a number and message and then press "Send" to send an SMS to a mobile.

In the lower section, send an SMS to a PLC in order to switch on a lamp for 10.00 seconds.

**Note** This is a simulation. To send an actual message, connect an Enfora modem to the V700. The Demo Case does not include a modem.

SMS		<b>V</b> u	NITRONICS
To Mobile			
Connect Enfora modem to COM2			
Initialize Modem:	Initialize Modem		
Enter number to send SMS:	+0312345678		SEND
Enter Message:			
To PLC			
Send "LAMP ON #XX#" to No.	for li	ghting the Lamps bel	ow:
	The Lamps will turn off	in	
	10.00 <b>S</b>		
🔊 🔽 🍐 😈			

### <u>GPRS</u>

This section allows you to demonstrate V700 support for GPRS modem.

**Note** This is a simulation. To send an actual message, connect an Enfora modem to the V700. The Demo Case does not include a modem.



## <u>CANbus</u>

Via CANbus you can communicate with up to 60 Unitronics PLCs, using Unitronics proprietary UniCAN protocol. The V700 support other protocols over CANBUS such as CANopen , Can\_Layer 2 and J1939.

## <u>Trends</u>

A Trend graph displays a dynamically changing value graph that tracks a single, dynamic value such as a temperature value, as a curve on the Vision screen.

To demonstrate this feature, press on the Trend icon.



The Trend graph displayed on the screen shows a Mode button, marked M. Press this button to toggle between viewing Real-time and Historical graphs.

Pressing on the button "Save Trend to SD" will start saving the Trend to a file in the SD card. This will show the Trend saved to SD on the right part of the screen.



### <u>Alarms</u>

VisiLogic's built in Alarm system can:

- Show Alarm status.
- Provide instructions.
- Require operator action.
- Report the event to the machine operator.
- Play an active role in the conditions enabling the running of the process.

Press on the Alarm icon to start the demonstration.

	General Demo				
Slide Show	System	String Library	Data Logging	Communication	
	Simulation	Languages	Data Logging DT,SD		
Trends	Alarms	Clock Functions	RFID	Screen Saver	

Alarms are generated automatically via tank simulation.

	Alarms	ſ
Alarms		
L		
View Groups	View Alarms	View History
2		

		Alarms in Gro	oup	0	0		ESC
ID	Alarm Name	Time	Date	Active	Priority	Details	Ack
000	Tank 1 Level is Too High	10:27:58	26/12/16	•	Low	٩	
001	Tank 2 Level is Too High	10:28:07	26/12/16	•	Low	d,	
		_	_	_	_	_	_
		_	_	_	_	_	_
		_	_	_	_	_	
		_	_	_	_	_	_
		_					
C Refresh							Reset

Press on the View in Groups to see the Alarm status, Trigger time, priority.

Groups with Pending Alarms:

Alarms are arranged in groups. Group 00, General Collection, is the default group.

This display shows all groups that contain one or more pending Alarms. If the Alarms in a group are no longer pending, the group is not displayed.

	Groups	with Pending Alarms		ESC
ID	Group Name	Count	Details	
00	General Collection	2	٩	Reset
			_	
🗘 Refresh				

#### **Alarm History**

An Alarm is added to the History buffer after it has:

- Become Inactive.
- Has no Pending actions: View, Acknowledge and Reset.

The History display records the time the Alarm became active, the time it became inactive, and when Acknowledge and Reset were performed.

The buffer holds up to 256 History displays; when it is full it functions according to FIFO.

		Alarm History	
		Tank 2 Level is Too High	
Event	Group Date	00 General Collection Time	Duration
Trigger Rise	26/12/16	10:27:26	
Trigger Fall	26/12/16	10:27:36	00:00:10
Ack.	01/01/0	00:00:00	
Reset	01/01/0	00:00:00	
) Refresh			

### **Clock Function**

Clock functions enable you to schedule tasks according to year, month, day of the month and hour. This can be helpful in energy-saving applications.



## <u>RFID</u>

The RFID card reader is physically connected to the V700 inside the Demo Case. The data is sent to the UniStream via Ethernet.

The RFID card supplied with the Demo Case is located in the red pocket inside the case.

Note that most RFID tags are compatible with this specific RFID reader.

Press on the RFID icon.



To add a new RFID tag: 2. Swipe the card.

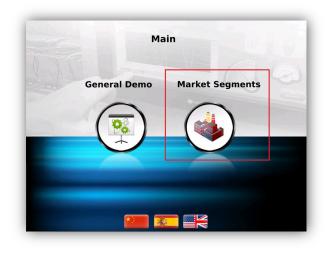


- 3. Enter the Administrators Password (default: 1111).
- Assign the card a "User Name" by pressing on the "Type Your Name" text box.
- 5. Press "Save" to assign this user name to this card ID.



### Market Segments

The Market Segments offers two scenarios, Boilers and Water Treatment. On the Home screen, press the Market Segment icon, and then select the desired scenario.



#### Water Treatment Scenario

This application simulates a water treatment installation.

All three PLCs are in constant communication, sharing data

Any change in one PLC influences the others.

The next screens show all three HMI panels. Any element, such as pumps and valves, can be triggered from any PLC.

The Samba screen displays two waste water tanks, with green-fill.

The V700 screen displays a purification station. There are two purification tanks, which deliver purified water to a filling tank.

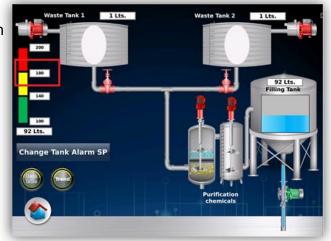
The UniStream screen displays the entire system, combining the HMIs of both the V700 and Samba, and enabling you to both monitor and operate the entire system from one screen.

The water levels and valve status are logged in a Data Table and can be displayed in a Trend graph.

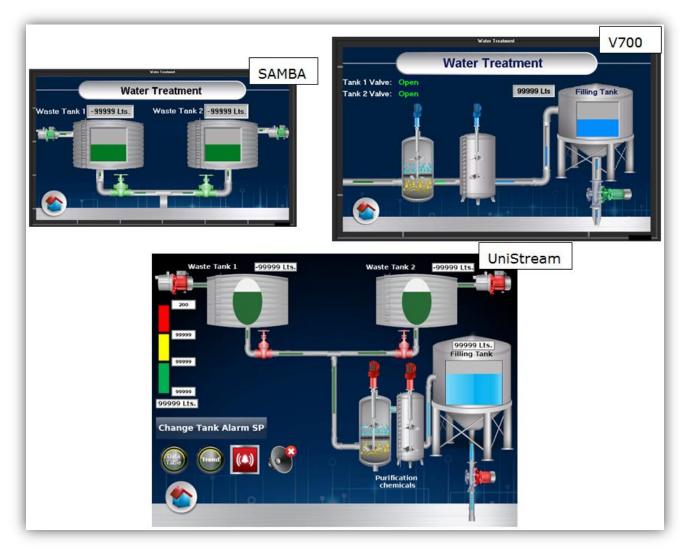
The colors of the light tower indicate the level of the purified water in the filling tank. The color changes are determined by setpoints, which you can edit. The setpoint linked to 'alarm' triggers a red light and also triggers a sound. Note that you can mute the sound by pressing the speaker icon.

The application also contains Alarm system, which will trigger by the 'alarm' setpoint (minimum value of the red tower light).

As you navigate through the screens, you can return to the main screen at any time by pressing the Home button.



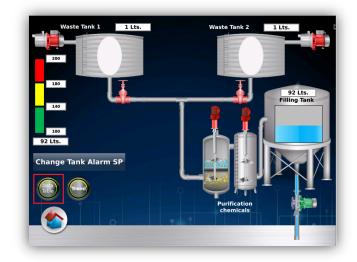




To display a running graph of system values, press the Trend button on UniStream's screen. Return to the main screen by pressing the red arrow on the lower left.



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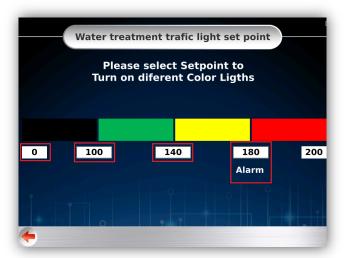
_	Water Treatment		Edit On
a 👘	Tank 1	Tank 2	Filling Tank
0	27	33	97
1	27	33	99
2	27	33	101
3	27	33	103
4	27	33	105
5	27	33	107
6	27	33	109

<u>Editing the set points</u>: control the bar graph and light towers threshold, is restricted to approved personell.

- 1. Press on the "Change Tank Set Point".
- 2. Swipe your RFID card to access the setpoints. (Instructions for registering and editing RFID cards and user names begin on page 7) and then touch a value to edit it.

Below, the value 180 is the emergency 'Alarm' setpoint. When the filling tank reaches 180, a buzzer will sound and the Alarm screens will be triggered.





A red bell icon appears when the Alarms are triggered and in an active state. You can enter the Alarm History by pressing the red Alarm icon.



### **Boiler Scenario**

This application simulates a boiler room.

All three PLCs are in constant communication, sharing data

Any change in one PLC influences the others.



The next screens show all three HMI panels. Any element can be triggered from any PLC.

The V700 screen displays two tanks , which are filled automatically and deliver water to the boiler through the pipes.

The Samba screen displays the boiler and its control switch, as well as its temperature and pressure.

The UniStream screen displays the entire system, combining the HMIs of both the V700 and Samba, and enabling you to both monitor and operate the entire system from one screen.

Turn the boiler switch to simulate heating the water.

The PT100 temperature is represented by the bar graph and the light tower.

You can heat the PT100 sensor in order to simulate alarm, sound and the tower light.

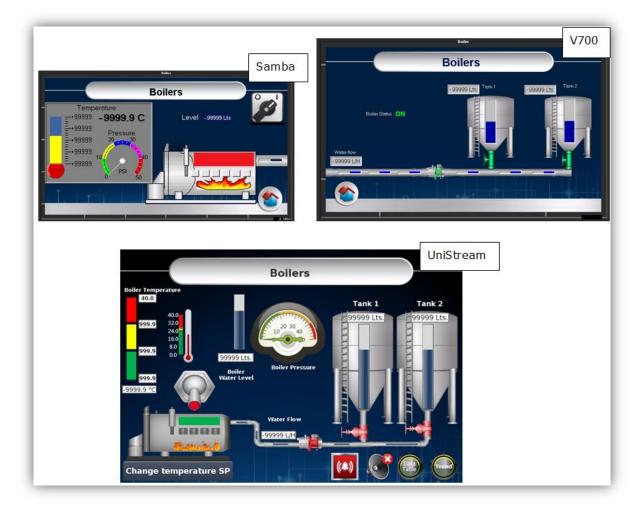
The color changes are determined by setpoints, which you can edit. The setpoint linked to 'alarm' triggers a red light and also triggers a sound.

Note that you can mute the sound by pressing the speaker icon.

The temperature values and water levels are logged in a Data Table and can be displayed in a Trend graph.

The application also contains Alarm screens, which are also triggered by the 'alarm' setpoint.

As you navigate through the screens, you can return to the main screen at any time by pressing the Home button.

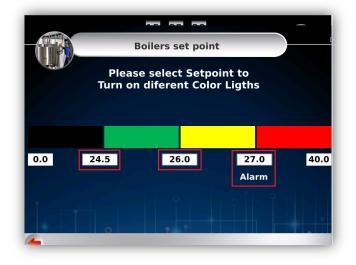


Editing the set points, which control the bar graph and light tower, is restricted to approved personell.

- 1. Press on the "Change temperature SP".
- 2. Swipe your RFID card to access the setpoints. (Instructions for registering and editing RFID cards and user names begin on page 7) and then touch a value to edit it.

Below, the value 27.0 is the emergency 'Alarm' setpoint. When the temperature reaches 27.0, a buzzer will sound and the Alarm screens will be triggered.





To display a running graph of the system values, values logged to Data Tables, or enter the Alarms system, the appropriate button on UniStream's screen.

Return to the main screen by pressing the red arrow on the lower left.

