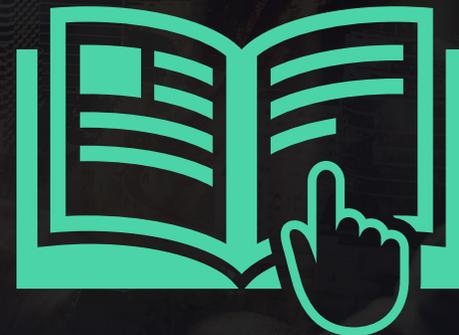


PRACTICAL USER  
GUIDE  
**Sitrad**<sup>®</sup> PRO



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## **INTRODUCTION**

Sitrad Pro is the new version of the already renowned Full Gauge Controls software for remote management of refrigeration, heating, air conditioning, and solar heating installations.

Using Sitrad Pro is very easy. It was created so that anyone can enjoy its benefits without the need for much knowledge of technology, meeting the strictest market requirements because it was developed by one especially dedicated engineering team from Full Gauge Controls.

Even so, we have developed this tutorial to facilitate your first steps when using the software.

**If you have any questions, please contact us by e-mail at [comex@fullgauge.com](mailto:comex@fullgauge.com)**

## **DOWNLOAD**

Sitrad Pro is available to be downloaded for free at [www.sitrad.com](http://www.sitrad.com). Download the software and install it following the step by step instructions of the installation wizard.

## REGISTRATION KEY

Upon finishing Sitrad Pro installation, you must perform a registration procedure to get the software registration key.

But don't worry, Sitrad Pro is completely free - the registration key is for application usage control purposes only.

Please access the *link highlighted in the image aside* to perform the registration.

A new registration key will be generated at the end of the registration procedure. The key must be typed on the registration screen above to enable access.

### IMPORTANT INFORMATION

- » A new key is required for each Sitrad Pro installation;
- » After the first registration on the site, you will not be required to fill in all the data. Just input your e-mail and the data will be filled in for you;
- » If the key is already being used in another Sitrad Pro that is installed in another computer, the software will remain locked until a valid key is provided.
- » If the computer is formatted and keeps the same hardware components, the same key that was used before formatting can be used.

Software registration - Sitrad

**Sitrad** PRO

Full Gauge

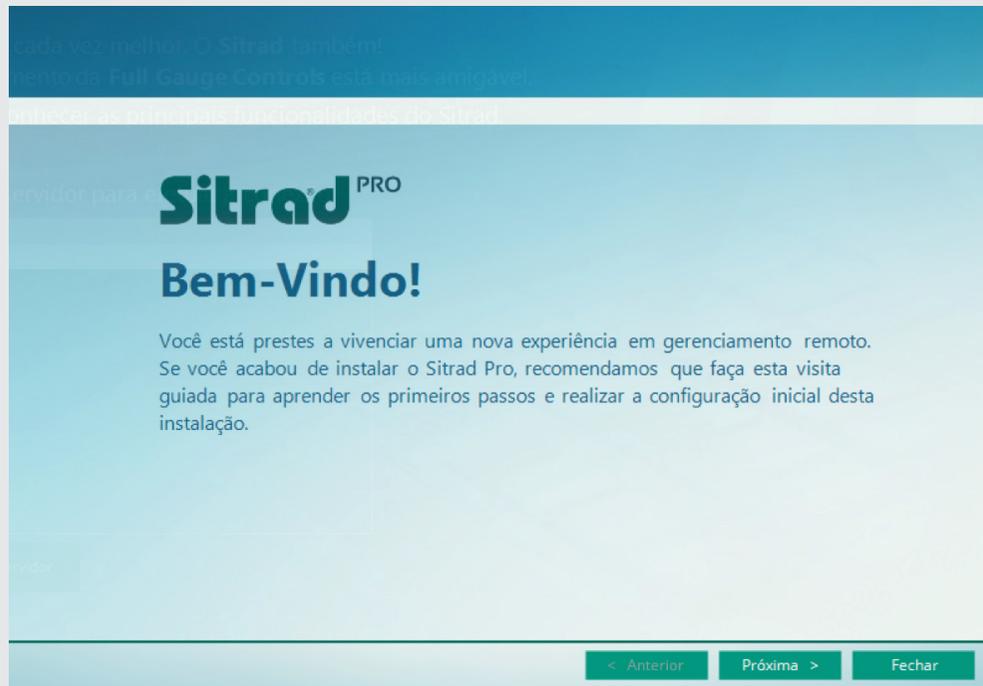
**I don't have a registration key**  
Register for free at:

or visit <http://www.sitrad.com/registration>.

**I have a registration key**  
Enter the key you received after the registration.

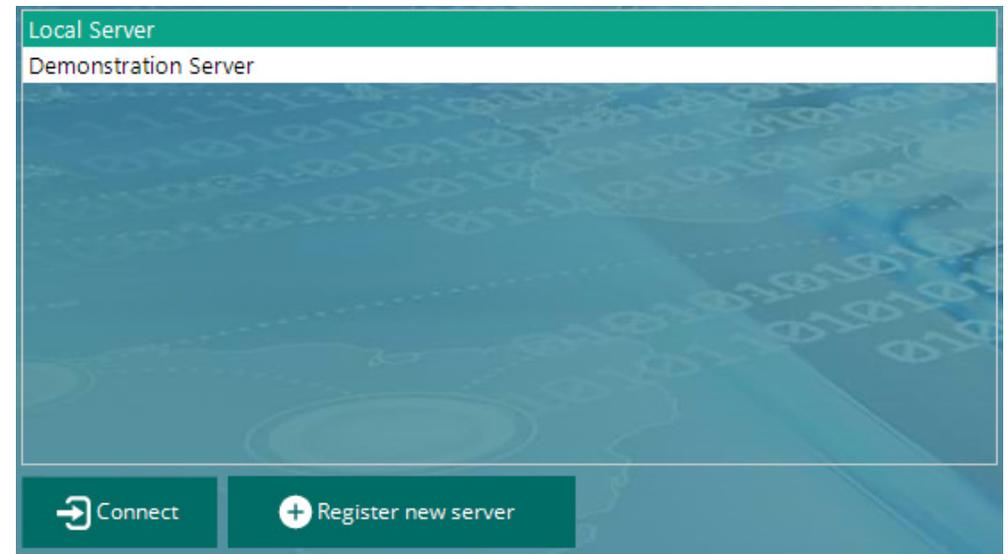
Full Gauge Controls  
[www.fullgauge.com](http://www.fullgauge.com)

## FIRST STEPS



When running Sitrad Pro for the first time, the Welcome window will be opened. We recommend you to follow all steps to understand the operation of the system. At this moment you will configure the most important points for the operation of Sitrad Pro, among which: Administrator login and e-mail for password recovery, e-mail server (it will be responsible for sending alarms and for the password recovery procedure in case you forget it), basic security settings, and initial registration of Full Gauge Controls Converters and Instruments.

## ACCESSING THE LOCAL SERVER

A screenshot of the Login screen. The title bar says "Login screen". It features two input fields: "Username" with a person icon and "Password" with a key icon. Below the password field is a link "Recover password? [Click here](#)". At the bottom, there are two buttons: "Connect" with a right-pointing arrow icon and "Cancel" with a circle and slash icon. A small note at the bottom reads: "The default user on the server is 'admin' with the password 'admin'."

**Access the Local Server** using the following data:

**User:** admin

**Password:** admin

If you have changed the password, use the new one.

# Sitrad Pro Splash Screen

SITRAD - 1.2.2

Sitrad PRO

Management | Configurations | Reports | Defrosts and Events

Administrator | Local Server

List of devices

Filter items...

- Local Server
- Demonstration Server

## Server Information

Disconnect | Add converter | Edit server

### General Information

Company: ---

[Click here to add an image](#)

Name	Local Server
Versão	1.2.2
Server Status	Connected
IP address/Port	127.0.0.1:8001
Location	---
Connected user	Administrator

### Converters on this server

Converter name	Type	Status	Version	Versão
----------------	------	--------	---------	--------



## REGISTER CONVERTERS

If you have not registered Converters and Instruments on the initial configuration tab, follow the steps below:

**1. You can register a converter by clicking on the button marked "Add Converter (+)" on the server screen**

**Another option is to click on the button highlighted on the side to automatically register a converter that is connected to the computer or in the network.**

**2. Click on "Search Automatically".**

Sitrad Pro will automatically locate all converters connected to the computer or in the internal network.

To register a converter:

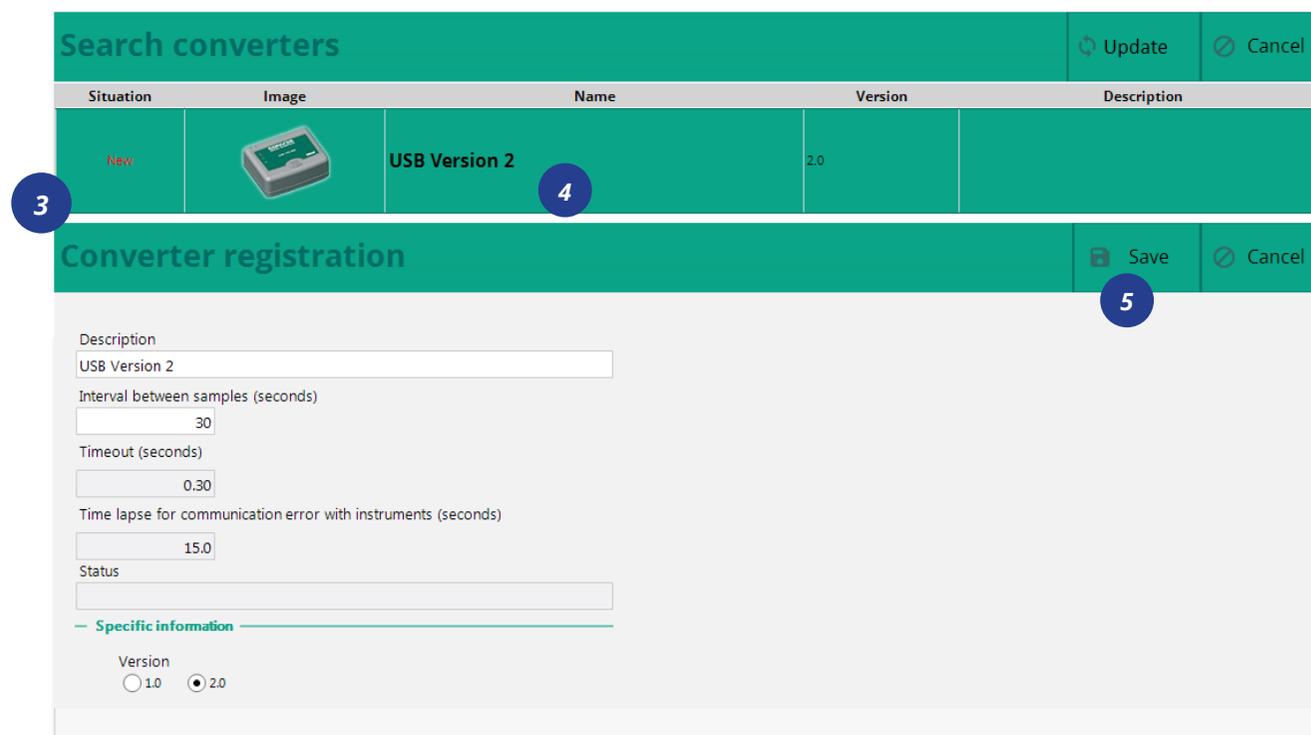
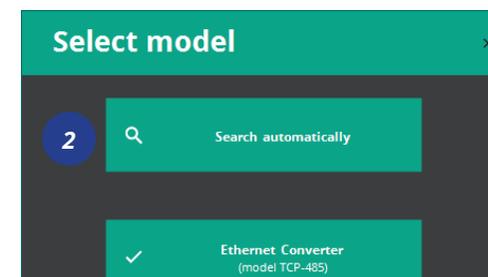
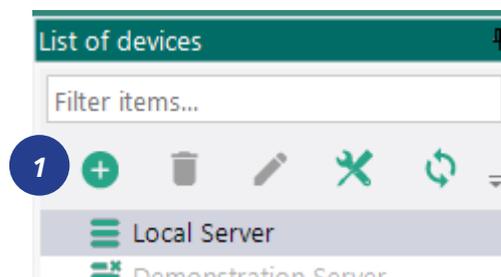
**4. Double click on the desired converter**

**5. Click on "Save"**

### Note:

In specific cases, use the other options for manual registration, for example, when you need to access an Ethernet converter that is not on the same computer network.

Sitrad Pro allows communicating with the converter TCP-485\* using the MAC address (Check whether the converter is Version 03). This makes the prior configuration of this converter unnecessary, just connect it to the network.



## REGISTER INSTRUMENTS

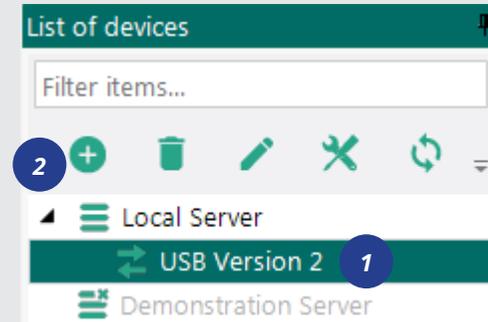
After all converters are registered, you can start to register instruments. There are two options for that:

Option 1:

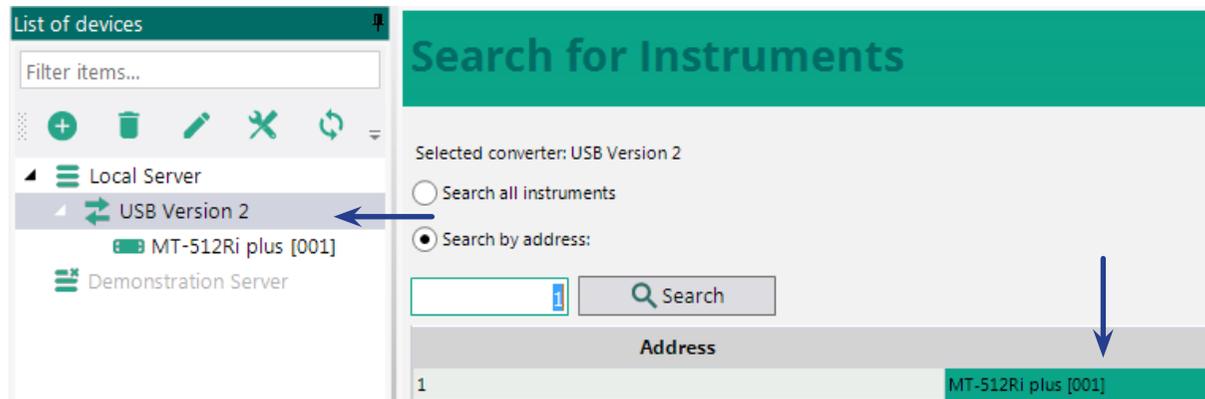
**Click "Search Instruments" on the converter screen.**

Option 2:

- 1. Select the desired converter**
- 2. Click on the button highlighted on the side to locate the instruments connected to this converter.**



The search can be made automatically in all addresses of the RS-485 network or in a specific instrument address. When the instrument is located, the registration is made automatically and the instrument will be visible on the left side column.



## Instrument Display Screen

SITRAD - 1.2.2

**Sitrad** PRO

Management | Configurations | Reports | Defrosts and Events

Administrator | Local Server

1

List of devices

Filter items...

Local Server

USB Version 2

MT-512Ri plus [001]

MT-512E Log [002]

MT-530E Super [003]

Demonstration Server

**MT-512Ri plus [001] | MT-512 Ri plus**

Active Instrument  
Updated at 10:30:37 AM

STATUS

Process status: Refrigeration

Process time: 01:26

TEMPERATURE SENSORS

Ambient Temperature

27.8 °C

OUTPUTS

REFRIG DEFROST

**Buttons and Functions in the Instrument Screen**

- Access to the instrument parameters
- Alarm Configuration
- Alarm Inhibition
- Occurrence of Alarms of this specific instrument
- Toggle Refrigeration / Defrost Status

Full Gauge CONTROLS

MT-512Ri Plus [001]						← Voltar
Code	Description	Min. value	Max. value	Unity	Current value	
SET	Control temperature (setpoint)	-50.0	75.0	°C	4.0	
<b>F02</b>	<b>Local callbration (offset)</b> *	-5.0	5.0	°C	3.0	
F03	Minimum set allowed to the end user	-50.0	75.0	°C	50.0	
F04	Maximum set allowed to the end user	-50.0	75.0			
F05	Differential control (hysteresis)	0.1	20.0			
F06	Delay to turn refrigeration output on	0	999			
F07	Refrigeration time	1	999			
F08	Defrost time duration	0	999			
F09	Initial status on energize the instrument	0 - refrig	1 - Defrost			
F10	Locked indication when entering in defrost	0 - No	1 - Yes			
F11	Delay on energize the instrument	0	240			
F12	Additional time on 1º cycle end	0	240			

**Buttons and Functions in the Instrument parameters screen**

- Update values
- Function Filter
- Delivery of Recipes
- Print parameters
- Save parameters as a new recipe
- Copy parameters to the Clipboard

\* **Function in BOLD:** Means that this function has changed and is different from the Factory Default

## ALARM CONFIGURATION

Alarms Notification Settings								← Back
Description	Virtual	Enabled	Minimum	Maximum	Current value	Ignored in	Configure [F9]	
Communication failure	<input type="checkbox"/>	<input checked="" type="checkbox"/>					Configure	
Sensor disconnected or faulty	<input type="checkbox"/>	<input checked="" type="checkbox"/>					Configure <b>1</b>	
Temperature alarm outside the configured limits	<input checked="" type="checkbox"/>	<input type="checkbox"/>			27.7		Configure	
Alarm relative to setpoint	<input checked="" type="checkbox"/>	<input type="checkbox"/>			23.7		Configure	

In the alarm configuration window, you can configure several types of alarms, which may change according to the instrument. To configure the desired alarm:

1. Click on "Configure"
2. Enable the Alarm (Non-virtual alarms - generated by the instruments themselves - cannot be disabled)
3. Define the limits;
4. Save.

### Alarm

Enable alarm. **2**

**Alarm Limits**

Minimum Limit  **3** Max Limit

Tempo de retardo de alarme

**Ignored in**

Email **4**

## ALARM INHIBITION

Sitrad Pro also allows the inhibiting alarms for a certain time. You will need to fill out a Justification because this information will be recorded in the Sitrad Pro Event Log.

Administrator Local Server					Number of Alarms Occurring
Instrument	Description	Start	End	Recognized by	
Local Server >> USB Version 2 >> MT-512E Log [002]	Sensor disconnected or faulty	8/7/2017 10:30:26 AM			

*Instrument identification - Server*

*Alarm Description*

*Start Date and Time*

*End Date and Time*

*Alarm Acknowledgement*

## ACKNOWLEDGING ALARMS

Alarm occurrences

Recognize Back

Showing 1 occurrences

Recognize	Server	Converter	Instrument	Description	End date of occurrence	Recognized by	Inhibited	Date of occurrence	Reconhecido por
<input checked="" type="checkbox"/>	Local Server	USB Version 2	MT-512E Log [002]	Sensor disconnected or faulty	8/7/2017 10:30:26 AM		<input type="checkbox"/>		

The acknowledged alarms will be saved in the Sitrad Pro Event Log.

We will talk about the Event Log later.

**1. Select the Alarm you want to Acknowledge**

**2. Click on "recognize".**

## ALARM INHIBITION

Inhibit alarms

Inhibit alarm for the next:

Hour(s) Minute(s)

1 0

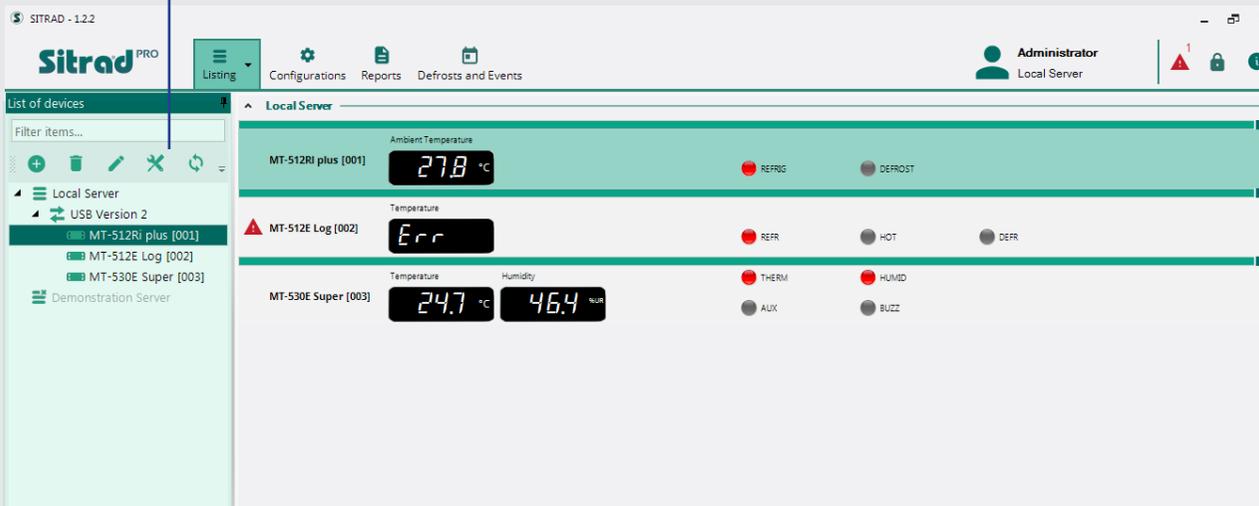
Reason(s):

Start inhibition

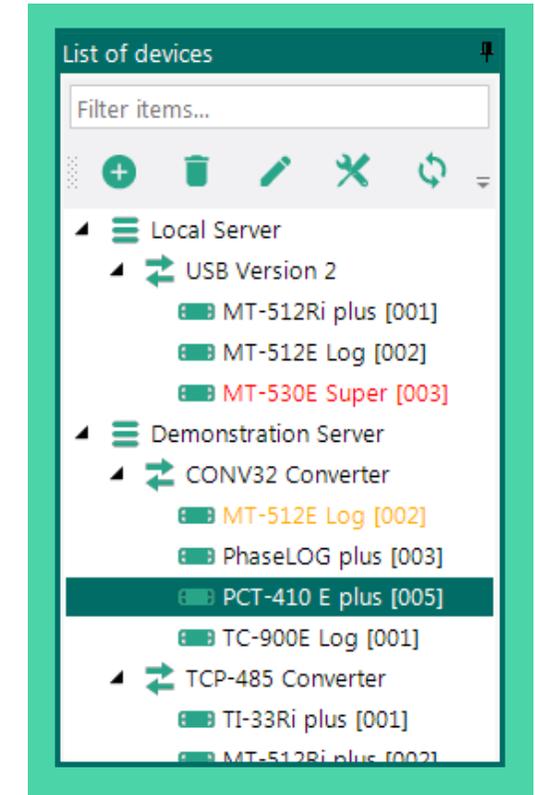
The Sitrad Pro also allows to inhibit alarms for a determined period. But to do so, it will be necessary justify this action once it will go to the event log of Sitrad Pro.

## LISTING MODE (VIEWER)

The Listing Mode allows viewing all the instruments connected to one or more servers in the same window.

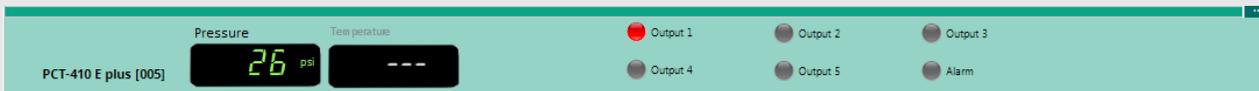


## INSTRUMENT STATUS



## LISTING MODE FUNCTIONS

The information in the Listing mode is the same as in the Managerial mode but reduced.



You can access the instrument Screen or Parameters even in the Listing mode:



1 Go to the selected Instrument Screen  
(Double-click on the bar)

- Under Maintenance
- Normal Operation
- Communication Failure

# REPORTS

SITRAD - 1.2.2

Sitrad<sup>PRO</sup>

Management Configurations Reports Defrosts and Events

Administrator Local Server

## Reports Configuration

### Create reports wizard

Welcome to the wizard for generating Sitrad reports.

Choose from the options below and click "Next" to move to the next steps of the wizard.

- Graph Report**
- Text Report**
- Alarm Report**
- Temperature Overview**
- Predefined Report**

Next > Cancel

**Sitrad Pro allows creating the following types of reports:**

**Graphical Report** | shows all information recorded in Sitrad Pro by an instrument in a Cartesian plane.

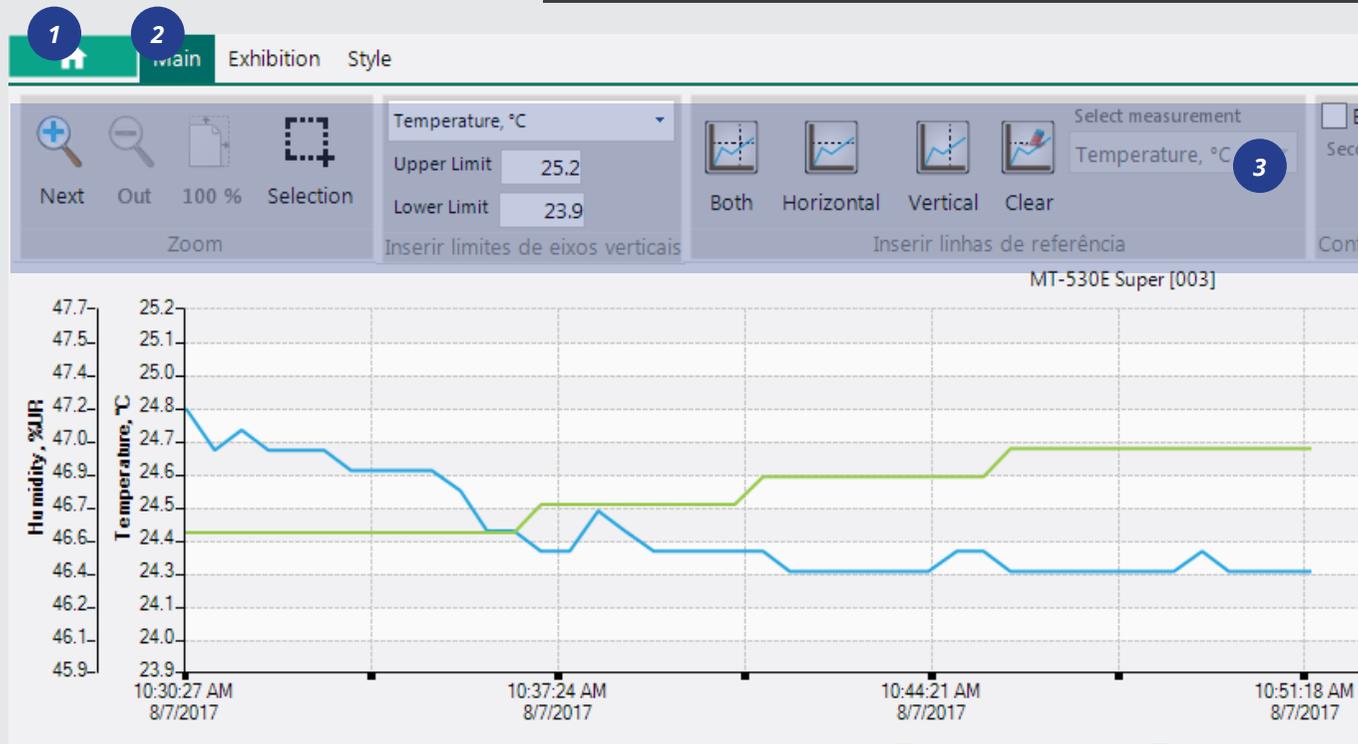
**Text Report** | shows all information recorded in Sitrad Pro by an instrument in text mode (spreadsheet).

**Alarm Report** | shows all alarms which occurred during the period in the selected instrument.

**Temperature overview** | you can select the exact moment you want to know the temperature. This report will inform the current temperature (Set Point), the deviation between the measured temperature and the Set Point, the process the instrument was in, and the instrument Status.

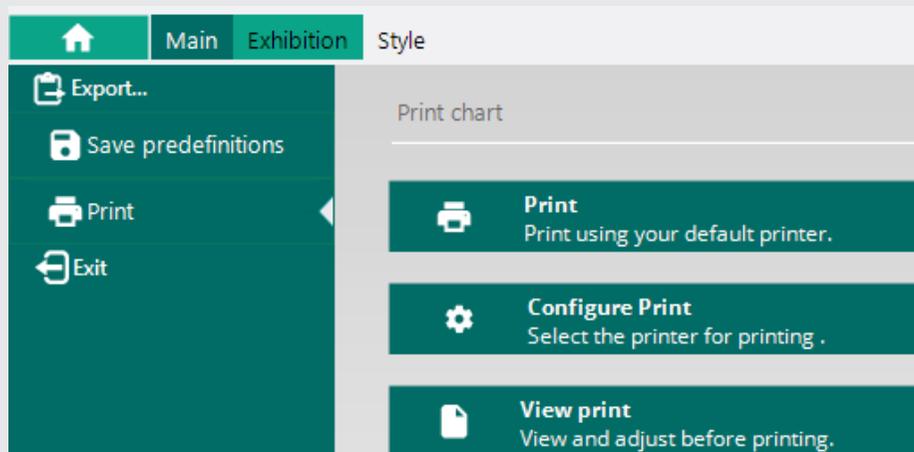
**Predefined report** | when a report is generated, you can save its predefinitions, allowing the quicker generation of new reports in the future, and helping users who need to perform this procedure several times per day/week have the ability to access the information always in the same instrument and in the same period. The predefinitions contain models of instruments, values, state of the outputs, and period.

## GRAPHICAL REPORT | EDITING



- 1 Access to the Chart Functions
- 2 Return to the Chart
- 3 Editing the Chart

Graphical Report Example



### SAVE | EXPORT AND PRINT THE GRAPHICAL REPORT

1. Click the button  on the above screen
2. Choose the desired option:
  - Export to PNG
  - Save as Predefinition
  - Print
  - Exit

TEXT REPORT

### Sampling Report ← Back

📄 🖨️ 📄 xls 🔍

**Text Report**  
Selected report predefinition: Undefined

Date	Setpoint	Output REFRIG	DEFROST output	Current process	Ambient Temperature	Deviation relative to setpoint S1
8/7/2017 10:33:55 AM	4	On	Off	Refrigeration	27.6	23.6
8/7/2017 10:34:25 AM	4	On	Off	Refrigeration	27.6	23.6
8/7/2017 10:29:19 AM	4	On	Off	Refrigeration	27.7	23.7
8/7/2017 10:29:20 AM	4	On	Off	Refrigeration	27.7	23.7
8/7/2017 10:32:24 AM	4	On	Off	Refrigeration	27.7	23.7
8/7/2017 10:32:54 AM	4	On	Off	Refrigeration	27.7	23.7
8/7/2017 10:33:24 AM	4	On	Off	Refrigeration	27.7	23.7
8/7/2017 10:48:39 AM	4	On	Off	Refrigeration	27.7	23.7
8/7/2017 10:49:11 AM	4	On	Off	Refrigeration	27.7	23.7
8/7/2017 10:29:52 AM	4	On	Off	Refrigeration	27.8	23.8
8/7/2017 10:30:24 AM	4	On	Off	Refrigeration	27.8	23.8
8/7/2017 10:30:54 AM	4	On	Off	Refrigeration	27.8	23.8
8/7/2017 10:31:24 AM	4	On	Off	Refrigeration	27.8	23.8
8/7/2017 10:31:54 AM	4	On	Off	Refrigeration	27.8	23.8
8/7/2017 10:34:57 AM	4	On	Off	Refrigeration	27.8	23.8
8/7/2017 10:35:29 AM	4	On	Off	Refrigeration	27.8	23.8
8/7/2017 10:45:39 AM	4	On	Off	Refrigeration	27.8	23.8
8/7/2017 10:46:09 AM	4	On	Off	Refrigeration	27.8	23.8
8/7/2017 10:46:39 AM	4	On	Off	Refrigeration	27.8	23.8
8/7/2017 10:47:09 AM	4	On	Off	Refrigeration	27.8	23.8
8/7/2017 10:47:39 AM	4	On	Off	Refrigeration	27.8	23.8
8/7/2017 10:48:09 AM	4	On	Off	Refrigeration	27.8	23.8
8/7/2017 10:36:29 AM	4	On	Off	Refrigeration	27.9	23.9
8/7/2017 10:36:59 AM	4	On	Off	Refrigeration	27.9	23.9
8/7/2017 10:45:09 AM	4	On	Off	Refrigeration	27.9	23.9
8/7/2017 10:49:41 AM	4	On	Off	Refrigeration	27.9	23.9
8/7/2017 10:35:59 AM	4	On	Off	Refrigeration	27.9	23.9

- 📄 Save as Predefinition
- 🖨️ Printing Options
- 📄 xls Export to Excel
- 🔍 Filter in the Report

## PREDEFINED REPORT

After saving the predefinition of the desired report, just follow the steps below to generate a new report.

1

Select the option "predefined report"

**Create reports wizard**

Welcome to the wizard for generating Sitrad reports.

Choose from the options below and click "Next" to move to the next steps of the wizard.

- Graph Report
- Text Report
- Alarm Report
- Temperature Overview
- Predefined Report

2

Select the desired predefinition and click "next"

**Create reports wizard**

Select predefined settings:

Show only my settings

Name	Type
Test example	Text

< Back   Next >   Cancel

3

You will see that the options are already defined.

Just click on the "Generate" button to view your Report.

**Create reports wizard**

Filter items...

- Local Server
  - USB Version 2
    - MT-512Ri plus [001]
      - Ambient Temperature
      - Setpoint
      - Deviation relative to setpoint S1
      - Current process
      - Output REFRIG
      - DEFROST output

All None Measurements Inputs/Outputs

Select the reporting period

- Last 15 minutes
- Last 30 minutes
- Last 1 hour
- Last 5 hours
- Last 10 hours
- Last 15 hours
- Retroactive days
- Fixed period

< Back   Generate   Cancel



## USER REGISTRATION

All fields with \* must be filled so that the registration can be completed. The E-mail is necessary to the password recovery and to receive alerts.

**User registration**

**Account information**

Login \*

Block after

Last login

[Set password](#) \*

Change password after

Inactivity time

Blocked

Inactive

Super Administrator

Change password at next login

---

**Personal information**

  
[Add Image](#)

Name \*

Email \*

Phone

Email confirmation \*

Receive alarms by email

---

**Location information**

Time Zone

Language

---

**Permissions for user groups**

---

**Devices Permissions**

Use the list below to relate converters and instruments with this user.

- Local Server
  - USB Version 2
    - MT-S12Ri plus [001]
    - MT-S12E Log [002]
    - MT-530E Super [003]

## USER GROUPS

This option allows Managing and Generating new User Groups. As a factory default, the system has three groups of users with predefined access permissions. However, the system administrator is free to assign and remove permissions.

The predefined groups of Sitrad Pro are:

### **Administrator**

With full system access

### **Technician**

With access to all system functions, except to manage Users and Permission Groups

### **Operator**

Basically views and generates reports only

The access rights are configured in the function Permissions.

## Users Groups View

	Name	Description	Enabled
	Administrators	User group with permissions on all application features.	<input checked="" type="checkbox"/>
	Technicians	User group with permissions to perform some maintenance and issues in the application, without access to user	<input checked="" type="checkbox"/>
	Operators	User group with more restricted permissions in the application, view only the basic features, reports and alarms.	<input checked="" type="checkbox"/>

## ALARMS

This field must be configured according to the customer needs.

### Alarm Notification Registration

Save Cancel

**General settings**

Inhibit alarms during the defrost.

Alarm inhibit time after defrost (in minutes)

0

Show notifications on the SITRAD screen

**Email settings**

Send notifications by email

Minimum time between sending alarms (minutes)

3

Alarms resending time (minutes)

15

Subject

SITRAD - Alarms alert on installation

Email addressed to

## ALARMS PER USER

This function defines which alarms each user will receive.

### Alarms by user

Save

Users	Alarms
Administrator	<p>Filter...</p> <p>Select all None Expand all Collapse all</p> <ul style="list-style-type: none"><li><input checked="" type="checkbox"/> USB Version 2<ul style="list-style-type: none"><li><input checked="" type="checkbox"/> MT-512Ri plus [001]</li><li><input checked="" type="checkbox"/> MT-512E Log [002]</li><li><input checked="" type="checkbox"/> MT-530E Super [003]</li></ul></li></ul>

## GENERAL SAFETY SETTINGS

This field must be configured according to the customer needs.

**Security settings** Save Cancel

**Login settings**

Blocking by login failures (attempts)  
0  
*It allows you to automatically block a user if he gets the password wrong over the set number of attempts. A user with permission to access the user registration will be needed in order to perform the unblocking.*

Minimum time to lock (hours)  
2  
*Determines a maximum amount of time between unsuccessful login attempts before proceeding to disable the account.*

**Change or retrieve password**

Force password change (days)  
0  
*Forces the user to change the password periodically.*

Validity of the temporary password (days)  
0  
*Minimum time that user cannot reuse a password already used previous for to make the password change.*

Prevent password reuse (days)  
24  
*Minimum time that the user can not reuse a password that is already registered when changing password.*

## E-MAIL CONFIGURATION

Which will send e-mails

If you have not configured the e-mail server in the initial tab, configure it in this function. This function must be configured with the customer data.

**Sending Email** Save Cancel

**Sender Information**

Sender name  
Sender email

**Sending Server Information**

List of most common e-mail servers...  
SMTP server address Server port  
25  
Authentication user  
Authentication password  
Server requires secure connection (SSL/STARTTLS)  
 Yes  No  
Test e-mail

## COMPANY INFORMATION

This function allows inserting the name and image of the company. This information is displayed when a report is generated or on Sitrad Pro homepage.

**Company Information** Save Cancel

**Company configuration**

Company name  
Company logo  
[Click here to add an image](#)  
Load Clear

## REGISTRATION OF RECIPES

This function allows making a prior configuration of a certain instrument so that this recipe can be sent to several instruments later. This function facilitates the configuration of several instruments of the same model that will perform the exact same function. Typically used in the production line. The recipe name, instrument model, instrument version, and units of measurement (if available) are defined on the screen below.

Preset registration

 Save
 Back

---

General Information
Functions

^ Specific information

Preset name

Instrument model

Version

Created by

Creation date

^ Operation models

Measure

Then the values of each function are defined. And at the end, just Save it.

Preset registration

 Save
 Back

---

General Information
Functions

Code	Description	Min. value	Max. value	Unity	Current value
SET	Desired temperature (Setpoint)	-50.0	75.0	°C	4.0
F02	Sensor indication displacement (Offset)	-5.0	5.0	°C	0.0
F03	Minimum setpoint allowed to the end user	-50.0	75.0	°C	-50.0
F04	Maximum setpoint allowed to the end user	-50.0	200.0	°C	75.0
F05	Control differential (hysteresis)	0.1	20.0	°C	1.0
F06	Operating Mode	0 - refrig	1 - heat		0 - refrig
F07	Minimum output-on time	0	999	sec	20
F08	Minimum output-off time	0	999	sec	20
F09	Refrigeration time (interval between defrosts)	1	999	min	240
F10	Defrosting time	0	999	min	30

# CADASTRO DE MACROS

Macros are basically a rule that is applied to the instrument at a certain time.

- 1 Define the desired name
- 2 Select the desired Function
- 3 Change the value as required
- 4 Save

**Macros registration**

Save Cancel

Specific information

Macro name

Created by: admin Creation date: 8/7/2017 1:21 PM

Instruments settings

Filter items...

- Local Server
  - USB Version 2
    - MT-512E plus [001] (selected)
    - MT-512E Log [002]
    - MT-530E Super [003]

	Code	Description	Min. value	Max. value	Unity	Current value
<input type="checkbox"/>	SET	Control temperature (setpoint)	-50.0	75.0	°C	4.0
<input checked="" type="checkbox"/>	F02	Local calibration (offset)	-5.0	5.0	°C	3.0
<input type="checkbox"/>	F03	Minimum set allowed to the end user	-50.0	75.0	°C	-50.0
<input type="checkbox"/>	F04	Maximum set allowed to the end user	-50.0	75.0	°C	75.0
<input type="checkbox"/>	F05	Differential control (hysteresis)	0.1	20.0	°C	1.0
<input type="checkbox"/>	F06	Delay to turn refrigeration output on	0	999	sec	20
<input type="checkbox"/>	F07	Refrigeration time	1	999	min	240
<input type="checkbox"/>	F08	Defrost time duration	0	999	min	30
<input type="checkbox"/>	F09	Initial status on energize the instrument	0 - refrig	1 - Defrost		0 - refrig
<input type="checkbox"/>	F10	Locked indication when entering in defrost	0 - No	1 - Yes		0 - No
<input type="checkbox"/>	F11	Delay on energize the instrument	0	240	min	0
<input type="checkbox"/>	F12	Additional time on 1° cycle end	0	240	min	0

Function description

Select a function from the list above to view its description

# SCHEDULED EVENTS

This function allows scheduling Macros, Reports, and Alarm Inhibitions. The events must be scheduled according to the customer needs.

**Schedulings**

Daily View Weekly View Monthly View Chronological View

06/08/2017 - 12/08/2017

(06) Sun (07) Mon

Local

0:00

1:00

2:00

3:00

4:00

5:00

6:00

7:00

8:00

9:00

10:00

11:00

12:00

13:00

14:00

15:00

16:00

17:00

Schedulings

Description

[Description of the schedule...]

Type: Macro scheduling Background color: Orange

Start date: 8/7/2017 Initial time: 2:05 PM

End date: End time:

Macro:

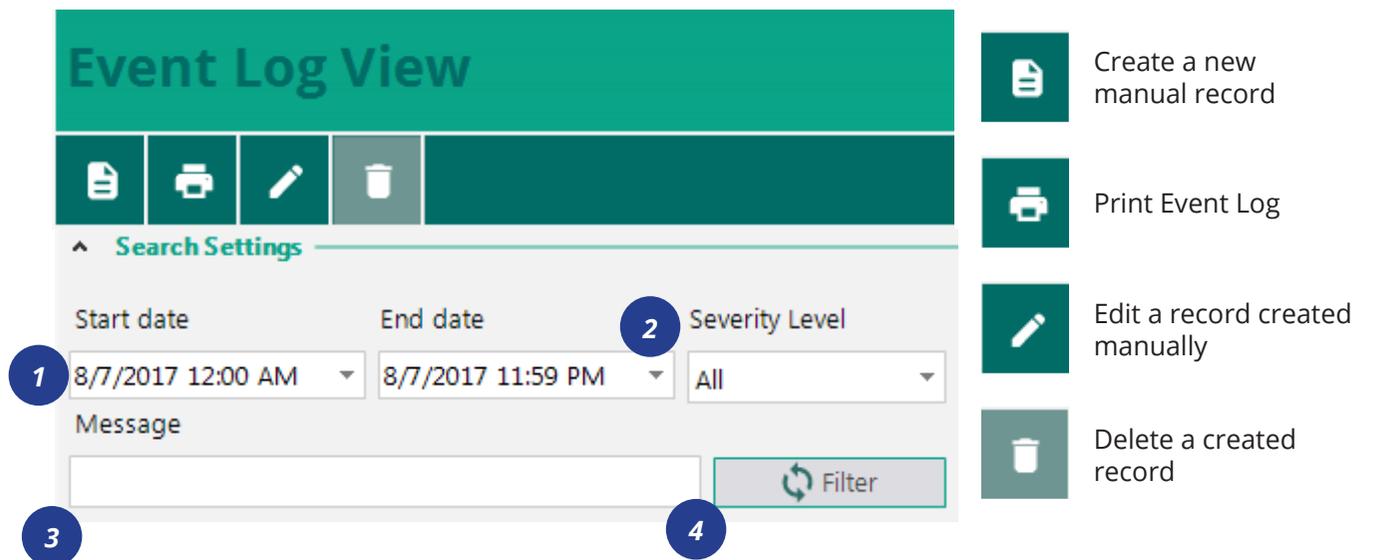
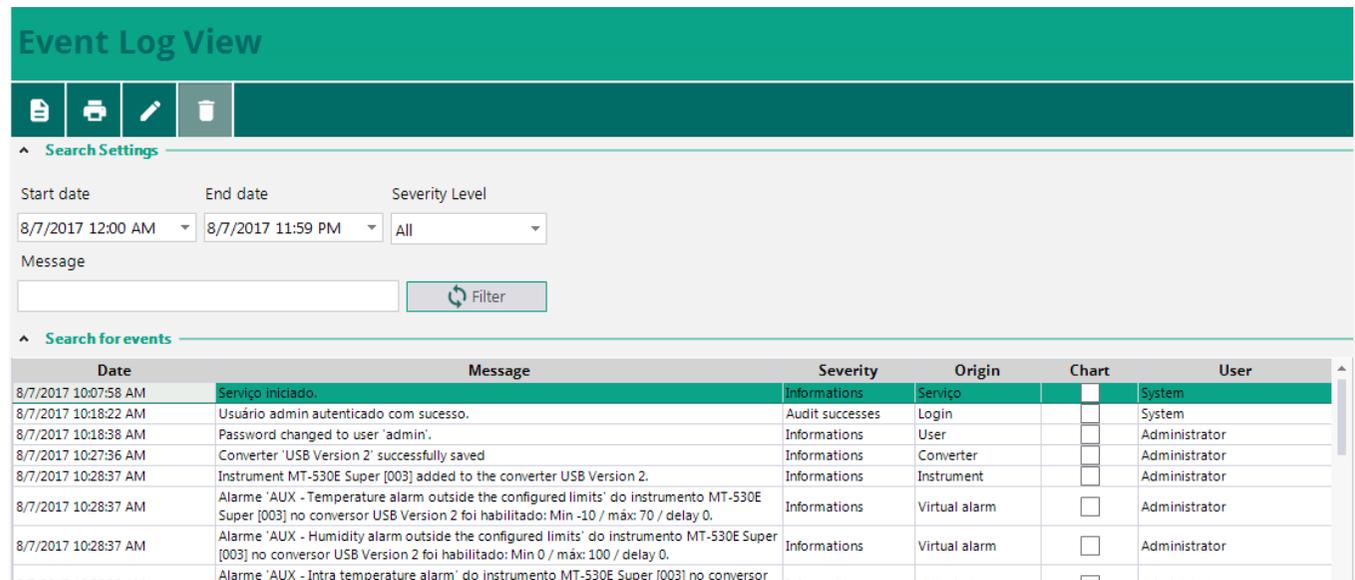
Save Cancel Delete Recurrence

# SITRAD PRO EVENT LOG

Sitrad Pro records all the information, changes, and accesses in its own database so that they can be queried later. Many different details are recorded, ranging from a simple access to the registration of a new user. Information such as parameter changes is also recorded, even if the changes are made directly in the instrument by physical means.

Aside you can see some examples of information recorded by the Sitrad Pro Event Log.

- 1 Define the date/time
- 2 Define severity
- 3 Define a specific message to filter Logs
- 4 Search the Logs



Full Gauge Controls appreciates your business. For more information or questions about the configuration of Sitrad Pro and/or other Full Gauge Controls software and instruments, please contact us by calling +55 51 3778 3434 or e-mail [\*comex@fullgauge.com\*](mailto:comex@fullgauge.com)

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