

RT-607E plus

DIGITAL THERMOSTAT WIT **EVENT SCHEDULE**







Functions











EVOLUTION

1. DESCRIPTION

Digital temperature controller and indicator combined with a time scheduler which allows the user to configure up to eight daily events, with programmable start and end time, which may be daily, weekly or split into business days and weekends. It allows the user to activate the load manually even out of the events. In addition to that, it offers parameters for recirculation and protection of water heaters. With the sensor disabled it works as a time scheduler only. It includes serial communication for connection to Sitrad

2. SAFETY RECOMMENDATIONS

- Check the controller for correct fastening;
- Make sure that the power supply is off and that it is not turned on during the controller installation;
- Read the present manual before installing and using the controller; Use adequate Personal Protective Equipmenet (PPE);
- For application at sites subject to water spills, such as refrigerated counters, install the protecting vinyl supplied with the controller;
- For protection under more critical conditions, we recommend the Ecase cover, which we make available as an optional item (sold separately);
- The installation procedures should be performed by a qualified technician.

3. APPLICATIONS

- Air Conditioning
- Water heaters
- · Displays with static coils
- Defrost control
- Ovens, injection machines
- · All processes that require time scheduling

4. TECHNICAL SPECIFICATIONS

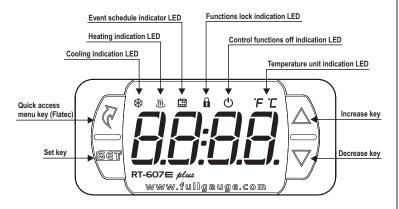
Electric supply	RT-607E plus: 115 or 230 Vac ±10%(*) (50/60 Hz) RT-607EL plus: 12 or 24 Vac/dc +10%(*)					
Approximate consumption	0.7 VA					
Control temperature	-50 to 105°C (-58 to 221°F)(**)					
Operating temperature	0 to 50 °C / 32 to 122°F					
Minimum interval between events	10 minutes					
Maximum current per output	THERM - Thermostat control output: 16(12)A 250Vac 2HP EVENT - Event schedule activation output: 10A / 240Vac ¹ / ₄ HP					
Operating humidity	10 to 90% RH (no condensation)					
Dimensions (mm)	76 x 34 x 77 mm (WxHxD)					
Dimensions for cutting – to fasten the instrument	$71 \pm 0.5 \times 29 \pm 0.5 \text{ mm (see image V)}$					

(*) Acceptable variation in relation to the rated voltage.

(**) This device can measure and control temperatures of up to 200°C when used in conjunction with a model SB59 silicon sensor cable (sold separately)

Note: Sensor cable length can be increased to up to 200 meters by the user by using a PP 2 x 24 AWG cable.

5. INDICATIONS AND KEYS



6. WIRING DIAGRAM

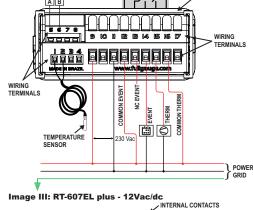
6.1. Identifications (see Images I to IV)

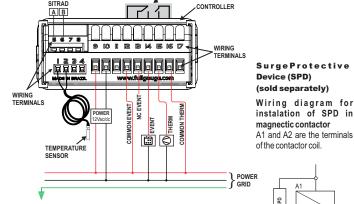
- Image I: RT-607E plus, supplied at 115 Vac.
- Image II: RT-607E plus, supplied at 230 Vac.
- Image III: RT-607EL plus, supplied at 12 Vac/dc.
- Image IV: RT-607EL plus, supplied at 24Vac/dc.

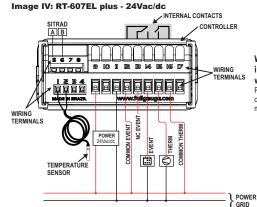
⚠ IMPORTANT

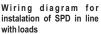
INSTRUMENTS IN THE EVOLUTION SERIES HAVE TWO DIFFERENT TERMINAL SIZES, BUT BOTH ARE COMPATIBLE WITH THE SCREWDRIVER 2.0mm. USING THE APPROPRIATE TOOLS DURING INSTALLATION ENSURES A LONGER LIFE AND THE PROPER OPERATION OF THE PRODUCTS.

Image I: RT-607E plus - 115Vac INTERNAL CONTACTS SITRAD A B CONTROLLER 9 10 11 12 18 14 15 16 17 WIRING TERMINALS NC EVENT TERMINALS THERM TEMPERATURE SENSOR POWER Image II: RT-607E plus - 230 Vac INTERNAL CONTACTS SITRAD 9 10 11 12 18 14 15 16 17 WIDING









SPD

For direct drive take in to consideration the specified



6.2. Temperature sensor connection

- Connect the sensor wires to terminals '1 and 2': the polarity is not relevant.
- Length of the sensor cables can be increased by user himself to up to 200 meters, using a PP 2x24 AWG cable.

6.3. Controller power supply

Use the pins according to table below, considering the set version:

Pins	RT-607E plus	RT-607EL plus
9 and 10	115 Vac	12 Vac/dc
9 and 11	230 Vac	24 Vac/dc

6.4. Recommendations of IEC60364 standard

a) Install overload protectors in the controller supply

 $\textbf{b)} \ \text{Install transient suppressors} - \text{suppressor filter RC} - \text{in the circuit to increase the service life of the} \\$ controller relay. See connection instructions of the filter on the previous page.
c) The sensor cables may be together, but not in the same conduit where the power supply of the

controller and/or of the loads passes through.

7. FASTENING PROCEDURE

- a) Cut out the panel plate (Image V item 13) where the controller shall be fastened, with sizes $X = 71\pm0.5$ mm and $Y = 29\pm0.5$ mm;
- b) Remove side locks (Image VI item 13): to do that, compress the central elliptical part (with the Full Gauge Controls logo) and displace the locks backwards:
- c) Introduce the controller in the notch made on the panel, inwards;
- d) Place the locks again and then displace them until they compress into the panel, fastening the controller to the housing (see arrow indication in Image VI - item 13);
- e) Perform the electric installation as described in item 6;
- f) Adjust the parameters as described in item 8.

ATTENTION: for installations requiring liquid tight sealing, the notch sizes for the controller installation should be no more than 70.5x29mm. The side locks should be fastened so that they press the sealing rubber avoiding infiltration between the notch and the controller.

Protector vinyl - Image VII (item 13)

It protects the controller when installed at a site subject to water spills, such as refrigerated counters. This adhesive vinyl is supplied with the instrument in the package.

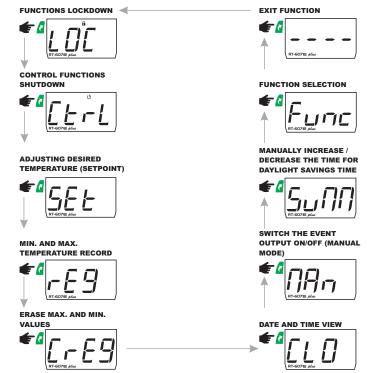
- ▲ IMPORTANT: Make the application only after completing the electrical connections.
- a) Retreat the side locks (Image VI item 13);
- b) Remove the protective film from the adhesive vinyl face;
- c) Apply the vinyl over the entire upper part, bending the flaps, as indicated by the arrows Image VII (item 13):
- d) Reinstall the locks.

NOTE: The vinyl is transparent, allowing visualization of the wiring system of the instrument.

8. OPERATIONS

8.1. Quick Access Menu Map

To access or browse the quick access menu use the key (quick touch) while the controller is displaying the temperature/time. With each touch the next function in the list is displayed. To confirm use the \(\frac{1}{4}\) key (quick touch). See chapter 8.3 for more details. The map of functions is shown below:



8.2. Quick access keys map

When controller is on temperature/time display mode, the following keys can be used as a shortcut for the following functions:

SET	Hold down for 2 seconds: setpoint adjustment (desired temperature).
SET	Quick touch: the current day, month, year, day of the week, hour, and minute/ temperature will be shown in sequence on the display.
	Quick touch: display of the maximum and minimum measurements recorded.
	Hold down for 2 seconds: clear history when records are being displayed.
7	Hold down for 10 seconds: manual activation of the event output.
•	Quick touch: enter the quick access menu.
7	Hold down for 5 seconds: control functions shutdown.
	Enters function selection.

8.3. Basic operations

8.3.1. Adjusting setpoint (desired temperature)

Hold the Wey down for 2 seconds until the message FF. is displayed. The adjusted control temperature will be displayed when the key is released. Use the A or Vey key to change the value and then press \P to save. The desired temperature can also be changed in the quick access menu, (see

8.3.2. Functions lock

The use of the functions lock brings greater security to the operation of the instrument. When it is active, the setpoint and other parameters can be visible to the user, but are protected against undue changes F 15 = 2 or you can block changes of control functions and leave the adjustment of the setpoint enabled F 15 =1. Using the key (quick touch), access the function L III in the quick access menu, confirm by pressing \P (quick touch), then the message $\boxed{\ \ \, }$ will be displayed. After that displayed. The message [] n will be displayed indicating the function lock is activated upon releasing the key.



To unlock, turn the controller off and then turn it on again with the 💆 key pressed. Keep the key pressed until [[[] [] is displayed. Keep the key pressed for 10 seconds and the message [[] F F] will be displayed indicating the function lock is deactivated upon releasing the key.

8.3.3. Control functions shutdown $[\![\circlearrowleft \!]$

Turning the control functions off allows for the controller to operate just as an indicator of temperature, keeping the control outputs and the alarms disconnected. Use of this feature is enabled or not by the control functions shutdown function $\boxed{F \ | \ |}$. When enabled, the control and alarms functions are turned off $(\boxed{E \ | \ |} \ \boxed{D \ |} \ F \)$ or on $(\boxed{E \ | \ |} \ \boxed{D \ |} \)$ through the quick access menu in the option $\boxed{E \ | \ |} \ C$. When the control functions are off the message $\boxed{D \ |} \ F$ will then be displayed alternately with the temperature and the other messages.

Except when F 17 is equal to 3 or 4, in which case the display is switched off, keeping only the 🖰



NOTE: It is also possible to switch the control functions on/off by pressing the **a** key for five seconds. NOTE: When switching the control functions back on, RT-607 € plue will continue to respect the functions "FDB - Minimum thermostat output off time".

8.3.4. Minimum and Maximum Temperature Record

Holding the key down (quick touch) or also via the quick access menu, will cause the message r E 9 to be displayed and the minimum and maximum temperatures to be recorded. To erase the current minimum and maximum values, press the key (quick touch) until the message [- E 9] is displayed. Press 🖥 to confirm.

NOTE: If the key is pressed while the events are being displayed the values will be reset and the message <u>r 5 E L</u> will be displayed.

NOTE: If the temperature sensor is disabled the messages ____ and ___ will be displayed.

8.3.5. View current date and time

Quickly pressing the \{\quad \text{key makes possible to view the current date and time set in the controller.} However the display will show sequentially the current day (-- d), month (-- 17), year - ၂), weekday(교유모-), hour and minute (고급급급) and if the preferred view set in F 급명 is [Hour], the temperature is also displayed. It is also possible to view the date and time through the quick access menu in the option [[L []].

8.3.6. Manual activation of the event output

An event can be manually activated by pressing the very for 10 seconds. The event is deactivated after the time adjusted in function FDB. expires. The manual activation is disabled by pressing the \mathbf{z} key again for 10 seconds. The message $\mathbf{z}_{\sigma \sigma}$ is displayed when the manual activation is enabled and the message $\boxed{E_{\mathcal{O}} F F}$ is displayed when it is disabled. It is also possible to activate the event manually through the quick access menu [] R n

8.3.7. Manually increment/decrement the time for daylight savings

Using the option [5 u iiii] on the quick access menu it is possible to increment or decrement one hour to adjust the clock for daylight savings time. When this function is accessed you need to enter the access code 123 to allow you to make the adjustment. Use the and keys to choose between increase (Incr) or decrease (Incr) the time, and press \P to confirm.

8.3.8. Unit Selection

To select the units that the system will use to operate, press and simultaneously as the temperature is being displayed, enter the option [a d E using the access code] and then press \ . Then select the desired unit or or or using the \ \ \ \ \ \ keys, and press \ \ \ to

NOTE: Whenever the units are changed, the functions' configuration assumes the factory default, so they need to be configured again.

8.4. Advanced operations

8.4.1. Adjustment of the parameters

Parameter adjustment can be done through the quick access menu (a) by accessing the option Func, or by pressing and simultaneously when the temperature/time is being displayed. The following options will be displayed:

<u> □ d E</u> Entry to the access code

Func Change the advanced parameters

[] a E Event schedule operation mode

Event schedule programming [[L [] Adjustment or visualization of the date and time Select the desired function using the ightharpoonup and ightharpoonup keys. Press $ightharpoonup (\underline{q} u i ck touch)$ after selecting the function to view its value. Use Δ or ∇ to change the value and press ∇ when ready to save the configured value and return to the functions menu. To leave the menu and return to the normal operating mode (temperature indication), hold down (long touch) until - - - appears.

Note: If the function lock is active, the controller will show the message LDE in the display upon pressing or and will not allow the adjustment of the parameters.

8.4.2. Access code

To change the parameters or adjust the clock, select the [o] option by pressing (quick touch) and entering the access code 123 (one hundred and twenty-three) using

8.4.3. Date and time adjustment

When the [[L [] menu is selected, if the access code [[2 3] has been entered, the controller will enter the date and time adjustment mode. Use or to change the value and press when ready to save the configured value. If the date entered is invalid, the message [E [L []]] will be shown on the

Example 1 (correct access code entered):

Manipie : (correct access code criterou).	
□□♂- day □□□- month □□□- year	
	time minute
	flashing

IMPORTANT:

The controller has an auxiliary internal power supply to keep the clock running for at least 72 hours in case of a power cut. If the controller remains off for a long period of time, the message [E, E, E] may be displayed to indicate that the clock is not programmed. In this case, the date and time must be adjusted and the controller must be kept on for 10 hours to fully recharge the auxiliary power supply.

NOTE: If the controller's clock is not programmed (message [E [L []]) it is possible to adjust the time even when the functions are locked (message L D L). Under these conditions the clock adjustment is enabled and the other functions remain locked. After the clock is adjusted the adjustment function is locked again.

8.4.4. Event schedule operation mode

In the main menu (after entering the code 123) select the option $\overline{\Pi \circ d E}$ and then the desired function using the ightharpoonup or ightharpoonup keys. The factory default for the controller is ightharpoonup - Weekly Programming.

To leave the menu and return to the normal operating mode (temperature indication), hold down (long touch) until - - - appears.

- Weekly Programming: In this mode the instrument can configure up to 8 events for each day

[] Weekdays Programming: In this mode, the instrument keeps the same events from weekdays (Monday to Friday) and allows you to program different events for Saturday and Sunday. I E 7 - Daily Programming: In this mode, the instrument keeps the same events for all days of the

8.4.5. Event schedule programming

This option allows entering the values of the time intervals for each event. Data input depends on the configured operation mode. Up to eight events may be configured for each day. The start time and end

Dn / - Start time of the 1st event. **DFF** / - End time of the 1st event.

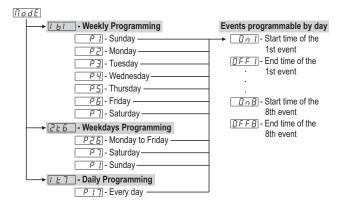
☐ ☐ B - Start time of the 8th event. <u>DFFB</u> - End time of the 8th event.

To configure the event schedule on menu [Prog]:

a)Press and (quick touch) simultaneously, the option [odf , will be displayed to request the access code.

b)Press and enter the access code 123 using the or key,confirming with option [od E will appear again

following programming options may be displayed depending on the operation mode:



If it is not necessary to use all the eight events then they may be configured in the disabled mode by increasing the switch off time ($\boxed{\textit{FF}}$) for instance) until $\boxed{\textit{OFF}}$ is displayed. It is also possible to configure an event to cross midnight by incrementing the switch off time until the option $\boxed{\textit{Fr}}$ is displayed and adjusting an event for the following day starting at 12:00 AM.

d)The time configured for the chosen event will be displayed. Use the △ or ▽ key to change the time and press again to return to the event programming menu.

e)To leave the event programming menu and return to the home screen, press \P until the message - - - is displayed.

NOTE: By default the event schedule comes with all events disabled.

NOTE 2: When the event schedule operation mode is changed all events return to the default, i.e. disabled.

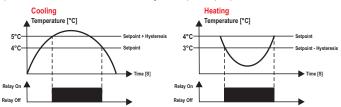
8.5. Parameters table

		CELSIUS				FAHRENHEIT			
Fun	Description	Min	Max	Unit	Standard	Min	Max	Unit	Standard
F 0 1	Temperature control differential (hysteresis)	0.1	20.0	°C	1.0	1	36	°F	2
F02	Sensor indication offset	-5.1(off)	5.0	°C	0.0	-10(off)	9	°F	0
F03	Minimum setpoint allowed to the end user	-50	200	°C	-50.0	-58	392	°F	-58
FOY	Maximum setpoint allowed to the end user	-50	200	°C	105.0	-58	392	°F	221
F 0 5	Operation mode	0(cool.)	1(heat.)	-	1(heat.)	0(cool.)	1(heat.)	-	1(heat.)
F06	Minimum thermostat output off time	0(no)	999	sec.	0(no)	0(no)	999	sec.	0(no)
F07	Link the thermostat to the event schedule	no	yes		no	no	yes	-	no
F08	Time for manual activation of the event output	0(no)	999	min.	0(no)	0(no)	999	min.	0(no)
F 0 9	Preferred measurement view	temp.	all	-	temp.	temp.	all		temp.
F 10	Recirculation - Scan time	0(no)	999	min.	0(no)	0(no)	999	min.	0(no)
FII	Interval between scans	0(no)	999	min.	0(no)	0(no)	999	min.	0(no)
F 12	Maximum time the thermostat output remains on without reaching the setpoint	0(no)	999	min.	0(no)	0(no)	999	min.	0(no)
F 13	Thermostat output off time in state of alarm for not reaching the setpoint	1	999	min.	1	1	999	min.	1
F 14	Digital filter intensity applied to the sensor	0(no)	9	-	0(no)	0(no)	9	-	0(no)
F 15	Function lock mode	0	2	-	0	0	2	-	0
F 16	Time for functions lock	15	60	sec.	15	15	60	sec.	15
F 17	Control functions shutdown	0(no)	4	-	0(no)	0(no)	4	-	0(no)
F 18	Address of the instrument in the RS-485 network	1	247		1	1	247		1

Legend: 4 E 5 = yes i= no 0 n = on

8.5.1. Description of parameters

F01-Temperature control differential (Hysteresis): It is the difference in temperature (hysteresis) between TURNING ON and OFF the cooling (or heating). **Example:** One wants to control the temperature at 4.0 °C with a differential of 1.0 °C. Therefore, the cooling is switched off at 4.0 °C and switched back on at 5.0 °C (4.0 + 1.0), in the heating mode the output is switched off at 4° C and is switched on again at 3° (4.0 - 1.0), as per the charts below



F02 - Sensor indication offset:

It allows compensating possible deviations in the temperature reading caused by the replacement of the sensor or changes in the cable length. The temperature sensor can be switched off by adjusting this function to the minimum value until the message $\boxed{\textit{DFF}}$ is displayed. Under these conditions the thermostat is disabled and the THERM output changes to the same state as the EVENT output.

F03 - Minimum setpoint allowed to the end user:

Avoids regulation of excessively low setpoint temperatures by mistake.

F04 - Maximum setpoint allowed to the end user:

Avoids regulation of excessively high setpoint temperatures by mistake.

F05 - Operation mode:

Allows selecting the controller operation mode.

- Refrigeration 7 - Heating

F06 - Minimum thermostat output off time:

It is the minimum time the thermostat output will remain off, i.e. the length of time between the last stop and the next start up. It is used to relieve the discharge pressure and increase the service life of compressor. This time is also used as an activation delay when the controller is switched on. This function can be switched off by setting it at the minimum value 0 _____

F07 - Link the thermostat to the event schedule:

This option allows linking the operation of the thermostat output to the event schedule. If the option 0 (no) is selected, the thermostat output will be controlled by the temperature only. In the case of option 1, the thermostat output will be controlled by the temperature and will only be activated with a valid event in the schedule

F08- Time for manual activation of the event output:

Time for which the event output remains on when manually activated. After this time has elapsed the event output returns to the automatic operation. This function can be switched off by setting it at the minimum value 0 🗖 🗖

F09 - Preferred measurement view:

It allows choosing which measurement will be displayed:

EFTP - Temperature (if sensor is enabled).

Hour - Hour

FLL - Switches between temperatures (if sensor is enabled) and time.

F10 - Recirculation - Scan time (if F05 = 1- heating):

Time during which the controller keeps the water circulation activated to equalize the water temperature in the kea.

F11 - Interval between scans (if F05 = 1- heating):

It is the interval between the last and the next temperature scan

NOTE: If the temperature to switch on the thermostat is reached the scan cycle is restarted.

F12 - Maximum time the thermostat output remains on without reaching the setpoint (if F05 = 1-

It is the maximum time the thermostat output will remain on without reaching the setpoint during the heating process. When this time is exceeded the visual alarm [#L r f] is activated and the thermostat output remains off according to the time defined in F13. Functions F12 and F13 serves as protections for the gas-fired heater so that in case of fault (flame out for instance), the water circulation is interrupted and the heater is switched off to protect it.

This function can be switched off by setting it at the minimum value 0 ______.

F13 - Thermostat output off time in state of alarm for not reaching the setpoint (if F05 = 1heating):

It allows adjusting the time for which the controller will keep the thermostat output off while in state of alarm for not reaching the setpoint. If the setpoint is reached during this time the alarm is switched off. If the setpoint is not reached after this time has elapsed, new checks are performed during the time defined in F12.

F14 - Digital filter intensity applied to the sensor:

This filter has the purpose of simulating an increase in thermal mass at the sensor thereby increasing its response time (thermal inertia). The higher the value set in this function, the more time the sensor takes to respond. This function can be switched off by setting it at the minimum value 0

F15 - Function lock mode:

It allows and configures the function lock.

Do not allow the function lock.

It allows a partial lock where the control functions will be locked but the adjustment of the setpoint, date views, and maximum and minimum record views are allowed.

[2] It allows the full lock, enabling only the date views and maximum and minimum record views.

F16 - Time for functions lock:

Allows lockdown of control functions (see item 8.3.2).

15 - 60 - Defines the time in seconds for the controller to activate.

F17 - Control functions shutdown:

Allows the turning off the control functions (see item 8.3.3).

Disables the control functions shutdown.

Enables activation/deactivation of the control functions only if the functions are unlocked.

Enables activation/deactivation of the control functions even if the functions are locked.

[3] It enables the activation/deactivation of the control functions only if the functions are unlocked, switching off the display.

데Enables activation/deactivation of the control functions even if the functions are locked. switching off the display.

NOTE: In options 3 and 4 the display is switched off if no keys are pressed and switched on when any key is pressed, remaining on for five seconds.

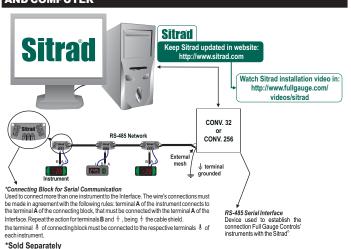
F18 - Address of the instrument in the RS-485 network:

Equipment's network address for communicating with Sitrad® software

Note: One network must not have different equipment with the same address.

9. SIGNALS Error in sensor: Sensor disconnected or damaged. Errl Functions lock. LOC[] n 0FFL 0 C Unlocking of functions $\Pi F F$ Control functions off. Adjustment or visualization of the date and time. [L]Invalid date and/or time (adjust the clock). [E [L 0] ALIN Alarm for failure to reach the setpoint. ECAL Contact Full Gauge Controls. PPPP Reconfigure the values of the functions.

10. INTEGRATING CONTROLLERS, RS-485 SERIAL INTERFACE AND COMPUTER



11. GLOSSARY OF ACRONYMS

- -°C: Temperature in Celsius degrees.
- -°F: Temperature in Fahrenheit degrees.
- Heat.: Heating.
- -LOC: Blocked.
- No: No.
- OFF: Turned off/disabled
- ON: Turned on, enabled.
- Refr: Refrigeration.
- SET (as in "Setting") (setting or configuration).
- Vac: Electrical voltage (volts) of alternating current.
- Vdc: Electrical voltage (volts) of direct current.

12. OPTIONAL ITEMS - Sold Separately

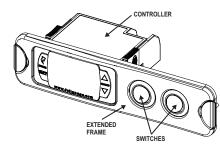
Ecase protective cover

It is recommended for the Evolution line, keeps water from entering the back part of the instrument. It also protects the product when the installation site is washed.



Extended frame

It allows the installation of Evolution line controllers with sizes 76 x 34 x 77 mm in various situations, since it does not require precision in the notch of the instrument fitting panel. The frame integrates two switches of 10 Amperes that may be used to actuate interior light, air curtain, fan, and others.



EasyProg - version 2 or higher

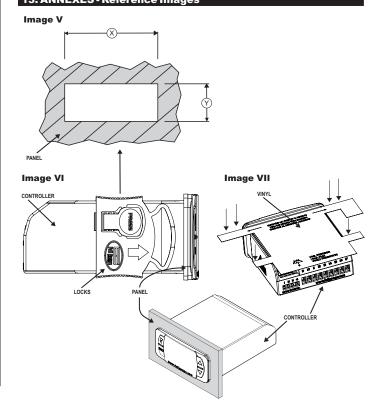
It is an accessory that has as its main function to store the parameters of the controllers. At any time, you can load new parameters of a controller and download them on a production line (of the same controller), for example. It has three types of connections to load or unload the parameters

- Serial RS-485: It connects via RS-485 network to the controller (only for controllers that have RS-485).
- USB: it can be connected to the computer via the USB port, using Sitrad's Recipe Editor.
- Serial TTL: The controller can be connected directly to EasyProg by the TTL Serial connection.

IMPORTANT TO PERFORM THE COMMUNICATION WITH EASYPROG THIS EQUIPMENT MUST NOT BE COMMUNICATING WITH SITRAD



13. ANNEXES - Reference Images





ENVIRONMENTAL INFORMATION

Packaging:

The materials used in the packaging of Full Gauge products are 100% recyclable. Try to perform disposal through specialized recyclers.

Product:

The components used in Full Gauge controllers can be recycled and reused if disassembled by specialized companies.

Disposal:

Do not incinerate or dispose the controllers that have reached the end of their service as household garbage. Observe the laws in your area regarding disposal of electronic waste. If in doubt, please contact Full Gauge Controls.

Products manufactured by Full Gauge Controls, as of May 2005, have a two (02) year warranty, as of the date of the consigned sale, as stated on the invoice. They are guaranteed against manufacturing defects that make them unsuitable or inadequate for their intended use.

EXCEPTIONS TO WARRANTY

The Warranty does not cover expenses incurred for freight and/or insurance when sending products with signs of defect or faulty functioning to an authorized provider of technical support services. The following events are not covered either: natural wear and tear of parts; external damage caused by falls or inadequate packaging of products.

LOSS OF WARRANTY

Products will automatically lose its warranty in the following cases:

- The instructions for assembly and use found in the technical description and installation procedures in Standard IEC60364 are not obeyed;
- The product is submitted to conditions beyond the limits specified in its technical description;
- The product is violated or repaired by any person not a member of the technical team of Full Gauge Controls;
- Damage has been caused by a fall, blow and/or impact, infiltration of water, overload and/or atmospheric discharge.

USE OF WARRANTY

To make use of the warranty, customers must send the properly packaged product to Full Gauge Controls together with the invoice or receipt for the corresponding purchase. As much information as possible in relation to the issue detected must be sent to facilitate analysis, testing and execution of the service.

These procedures and any maintenance of the product may only be provided by Full Gauge Controls Technical Support services in the company's headquarters at Rua Júlio de Castilhos, 250 - CEP 92120-030 - Canoas - Rio Grande do Sul – Brasil

Rev. 03

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