



ICEMATIC II Ver.01

CYCLIC TIMER



ICEMATICIIV01-01T-17555

⚠ Have this manual in the palm of your hand by FG Finder application.

WARNING

⚠ **BEFORE THE INSTALLATION OF THE CONVERTER, WE RECOMMEND READING THE INSTRUCTION MANUAL IN FULL TO PREVENT POSSIBLE DAMAGE TO THE PRODUCT.**

⚠ **PRODUCT INSTALLATION PRECAUTIONS:**
Before performing any procedure on this instrument, disconnect it from the power grid; Ensure that it has adequate ventilation, avoiding installation on control panels containing devices that could cause it to operate outside its specified temperature range; Install the product away from sources that may generate electromagnetic disturbances, such as: motors, contactors, relays, electrovalves, etc.;

⚠ **AUTHORIZED SERVICES:**
The installation and maintenance of the product must be performed by qualified personnel only;

⚠ **ACCESSORIES:**
Use only Full Gauge Controls original accessories.
If you have any queries, please contact our technical support.

THROUGH CONTINUOUS DEVELOPMENT, FULL GAUGE CONTROLS RESERVES THE RIGHT TO CHANGE THIS MANUAL INFORMATION AT ANY TIME, WITHOUT PRIOR NOTICE.

1. DESCRIPTION

ICEMATIC II is a cyclic timer programmable by setting the output ON and OFF times. It allows an adjustment of up to 12 hours to keep the control output activated and an adjustment of up to 60 minutes to keep the control output off.

It is equipped with a controller power up protection, ensuring that the control output (ON) is activated only after a minimum of two minutes. The green LED will keep flashing during this time, indicating that the controller is counting time before activating the output.

It also has a dedicated key to reverse the output state manually, always respecting the two-minute time before activating the control output (ON).

2. APPLICATIONS

- **ICEMATIC II** can be used as a timer for any type of cyclic event, such as: regulating cooling and defrost cycles in chambers and chambers and frigorific displays, activating lights, air conditioners, among others. In the irrigation of plantations, it can control the operation of motor pumps or solenoid valves for water.

3. TECHNICAL SPECIFICATIONS

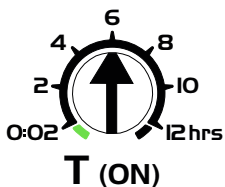
Power supply	85-265Vac / 50/60Hz
Accuracy	±3%*
Output on time	0:02 to 12 hours
Output off time	From 2 to 60 minutes
Maximum current	16(8) A / 250Vac 1HP
Dimensions	68,5 x 81,0 x 28,0 mm (2,70 x 3,19 x 1,10 in)

*Regarding the accuracy of the controller's internal timing. The accuracy of the configured time also depends on the adjustment made by the user.

4. OPERATIONS

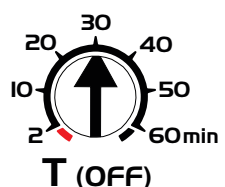
ICEMATIC II is a cyclic timer that allows the configuration of the time that the respective output will remain activated by setting the ON time and the OFF time. Upon power up, **ICEMATIC II** waits two minutes before activating the ON output. The green LED will keep flashing during this time, indicating that the output will be activated after that time has elapsed.

4.1 ON time adjustment:



The on T time (ON) can be configured with values between 00:02 and 12 hours. Whenever the controller is counting the T (ON) time, the green LED will remain on and the main output (NO contact) will remain activated.

4.2 OFF time adjustment:



The off T time (OFF) can be configured with values between 2 and 60 minutes. Whenever the controller is counting the T (OFF) time, the red LED will remain on and the main output (NO contact) will remain off.

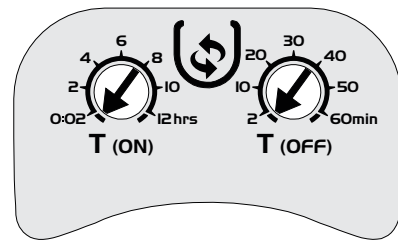
4.3 Output state reversing button:



With one touch (1second) on the key you can manually switch the output state. If the key is pressed while the controller is counting the minimum off output time (two minutes), the green LED will start flashing, indicating that the ON output will be activated after this time has elapsed.

5. TEST MODE

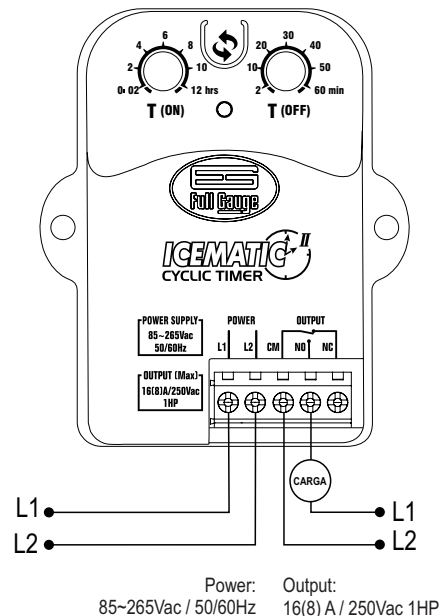
ICEMATIC II also has a setting that allows changing the output state every two minutes. This operating mode can be used for functional tests of the equipment on which the controller is installed. To perform this test, simply set the two time values in the minimum range of the scale, as shown in the image below:



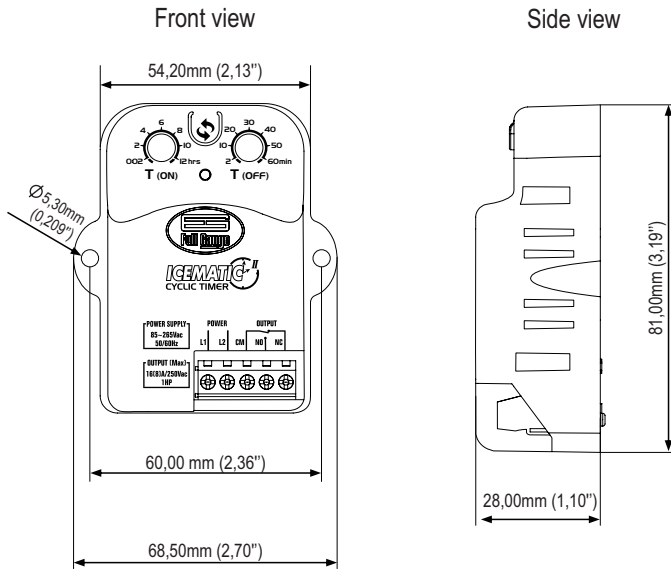
6. SIGNALING

LED STATUS / State	Occurrence	Output
● Green / On	Counting the configured output ON time.	Output on
● Green / Flashing	Waiting the two minutes of protection before activating the ON output.	Output off
● Red / On	Counting the configured output OFF time.	Output off
● Green - Yellow - Red / Flashing	Contact Full Gauge Controls.	Output off

7. CONNECTION SCHEMATIC



8. DIMENSIONS



Note: It is recommended to use a M4 or M5 screw to fasten the controller.



ENVIRONMENTAL INFORMATION

Package:

The packages material are 100% recyclable. Just dispose it through specialized recyclers.

Product:

The electro components of Full Gauge Controls controllers can be recycled or reused if it is disassembled for specialized companies.

Disposal:

Do not burn or throw in domestic garbage the controllers which have reached the end-of-life. Observe the respectively law in your region concerning the environmental responsible manner of dispose its devices. In case of any doubts, contact Full Gauge Controls for assistance.

TERM OF WARRANTY - 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 defect 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 - Canoas - Rio Grande do Sul - Brazil