

PRODUCT IMAGE



144 x 144 mm x 50 mm

SPECIFICATIONS

- Display: Display liquid crystal backlit (4 digits)
 Auxiliary power supply: 90 - 550V Ac Type connection voltage: 2-phase, 2-wire (L2L3)
 Input voltage range: 50 - 520V AC (L2-L3)
 Range input current: 5A AC (minimum 50mA, Max 6A)
 Load: 20m Ω frequency range: 45 - 65 Hz Consumption: 15VA
 Max
 Temperature indication: horn on display
 Control range: cos fi: 0.800 (ind.) to - 0.800 (chapter)
 Program switching: automatic
 Alarm: over temperature E01: error in input TI
 Environmental conditions: outdoor use
 Operating temperature: 0 - 60 ° C
 Storage temperature: - 20 - 60 ° C
 Humidity: 0 - 95% mounting: Panel

ACCURACY

| Measure | Accuracy |
|-------------|---------------|
| COS FI | ± 0.01 |
| Temperature | $\pm 3^\circ$ |

SAFETY PRECAUTIONS

All coding, symbols and safety instructions listed in this manual or on the equipment must be followed strictly to ensure the safety of operating personnel and equipment. If the equipment is handled in the manner specified by the manufacturer, the protection of the crew could be affected.

Caution: Read the instructions for use prior to installation of the device.

Warning: Electrical hazard.

ELECTROMAGNETIC COMPATIBILITY

1. Use cables appropriate for the various connections.
2. Availability of the connection cables must be away from any EMI source.

MAINTENANCE

1. The equipment must be cleaned regularly to avoid the obstruction of ventilation parts.
2. Clean the equipment with a clean, dry cloth, do not use cleaning products.

WIRING GUIDE

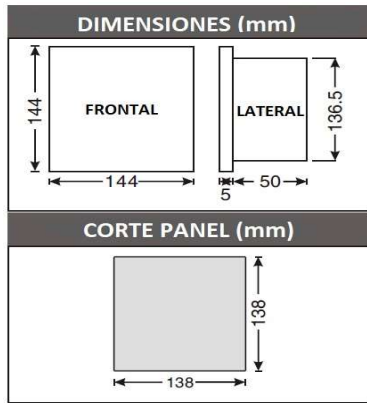
1. To avoid electrical shock, the tensions of input to the regulator must be cut while the appliance is wired. Do not touch the terminals while there is voltage.
2. Wiring must be in accordance with terminal used. Confirm that all connections are correct.
3. Pin type terminals used.
4. To eliminate electromagnetic interference, suitable cables should be used.
5. Cables used for connection of voltage should be 1.5 mm². These cables should withstand 5A.

INSTALLATION GUIDE

CAUTION

1. This team, to be recessed, normally will be placed in the main panel and their terminals do not remain accessible to the user after installation.
2. Drivers must not come into contact with the internal circuits of the equipment, otherwise can result in a risk to the safety of the team and the staff.
3. Before you disconnect the secondary external current transformer of the team, make sure that such output transformer is shorted to prevent downloads electric and injuries.
4. The equipment must not be installed in places with environmental conditions different to those detailed in this manual.
5. Equipment thermal dissipation is achieved through the vents of the housing of the same. These openings must not be obstructed, otherwise it may cause risks to the safety of the equipment and personnel.
6. Screws of the connectors must be properly torqued.

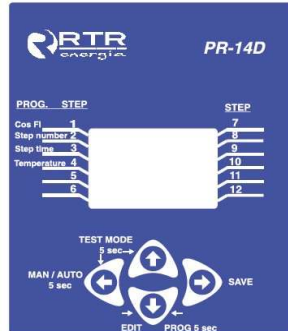
INSTALLATION AND DIMENSIONS



1. Prepare the panel with proper dimensions according to be shown in the figure.
2. Equipment should be placed in the counterbore made and fixed by using the clamps with screw back.
3. For a correct sealing, tighten the screws evenly with the required torque.

CAUTION

The equipment once installed heat, fumes, oils or other



must not be close to any source of processes

Front Panel

| KEYBOARD | |
|----------|--|
| | Press 5s to enter the configuration |
| | Press to increase digits |
| | Press to edit values and go to the next digit (right). |
| | Press to save changes and go to the next page. Press 5s to see the serial number. |
| | Press to go back in programming. Press 5s to change AUTO / MAN. |
| | Press for 5s to enter Test Mode |

Note: Test Mode checks all relays

Note: programming should be done by professional after reading this manual.

SERIAL NUMBER

Press to see the serial number of the device.

AUTOMATIC/MANUAL MODE


Press for 5 seconds to change mode (Auto / Man). The output relays will be disconnected when switching from one mode to another.

Press to connect the output relays one by one and to disconnect them (in manual mode)


The controller has 4 keys. Use these keys to enter the configuration mode and make changes.

NOTE: programming should be done by a professional after reading this manual.



DATA SCREENS

| Pulsing | Key | Description |
|------------|---|----------------------|
| | - | Power Factor Display |
| Press once |  | Temperature Display |

NOTE:Temperature Display requires a temperature probe to be connected

Press  for 5 seconds to enter configuration mode

CONFIGURABLE SCREENS

| Configuration | PROG. |
|------------------|---|
| Basic parameters | <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;"> <p>COS Φ</p> <div style="border: 1px solid black; padding: 5px; width: 60px; text-align: center;">1.000</div> <p>(cos fi)</p> </div> <div style="font-size: 24px;">→</div> <div style="text-align: center;"> <p>Step Number</p> <div style="border: 1px solid black; padding: 5px; width: 60px; text-align: center;">12</div> <p>(nº escalones)</p> </div> <div style="font-size: 24px;">→</div> <div style="text-align: center;"> <p>Step Time</p> <div style="border: 1px solid black; padding: 5px; width: 60px; text-align: center;">15</div> <p>(tiempo conexión)</p> </div> <div style="font-size: 24px;">→</div> <div style="text-align: center;"> <p>Temperature</p> <div style="border: 1px solid black; padding: 5px; width: 60px; text-align: center;">55</div> <p>(temperatura)</p> </div> </div> <p style="text-align: center; margin-top: 20px;">*To move from one screen to another press  </p> |

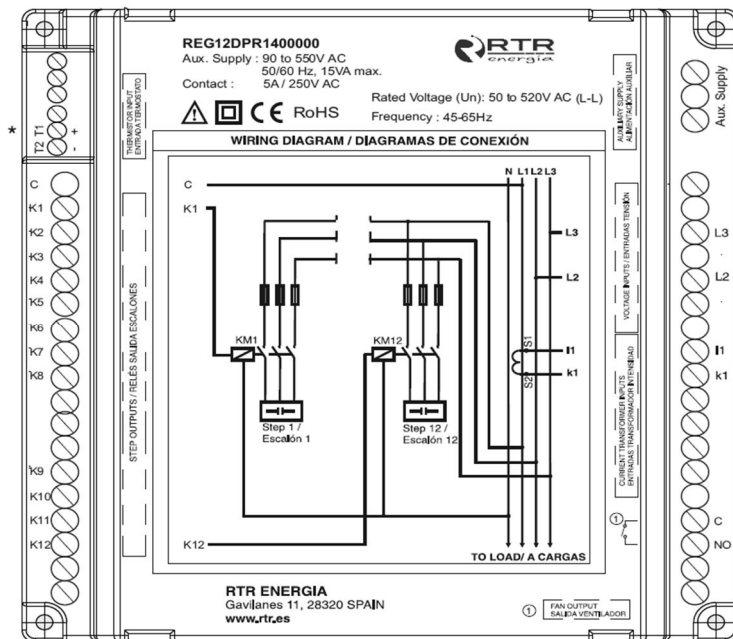
SETTING TABLES

| Paramater | Range | Default Value |
|-------------|---------------------------------|---------------|
| Cos FI | 0.800 (ind) a 0.800 (cap) | 1.000 |
| Step number | 1-12 | 12 |
| Step time | 1s-999s | 15s |
| Temperature | 10°C a 70°C | 55°C |

CONNECTION DIAGRAM

CONFIGURATION MODE

OPERATING MODES



* T1 and T2 are the inputs for the temperature sensor.

a) Manual connection mode (MAN): when the regulator is in this mode, the capacitors are manually controlled by the user.

b) Automatic connection mode (AUTO): This operating mode uses an intelligent sequence of connection and disconnection of the capacitors. The sequence is not set and the regulator automatically selects the most appropriate steps to be connected and disconnected to achieve the desired cosine.

(These specifications are subject to change, their development is a continuous process.)

In case of any doubt of operation or breakdown of the equipment, notify the technical service.

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