

SCENARIO FOR HMI LRH SERIES FOR THE MONITORING OF POWER FACTOR CORRECTION SYSEM MANAGED BY A DCRG8 AUTOMATIC PFC CONTROLLER.

Premise

This scenario is only an example to help the user to get familiar with the programming software LRH SW.

It is up to the user to check whether this can be adapted to his particular application.

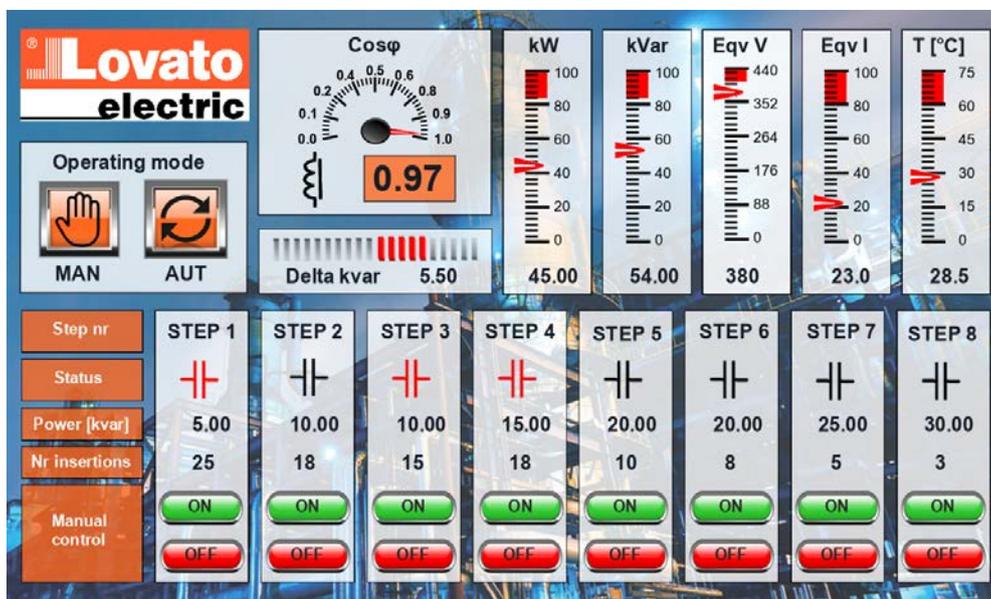
LOVATO Electric does not take any responsibility for the suitability of the scenario described.

DESCRIPTION OF THE SCENARIO

This scenario contains a graphical page which allows to monitor the main electrical parameters of the pant and the status of the PFC system.

The scenario shows the following items:

- Two buttons for the operating mode selection (at choice between manual or automatic).
- Two buttons for each step for the manual connection or disconnection of the step, which are enabled in case of selection of manual operating mode.
- Graphic indicators for the display of the electrical measures of the plant (cosphi, powers, voltage, current, delta kvar, step power, number of insertion of each step).



INSTRUCTIONS FOR THE USE OF THE SCENARIO

Step 1: configuration of the DCRG8 communication parameters

This scenario has been created for an automatic power factor controller DCRG8 series, connected to an HMI LRH series with the optional Ethernet power, code EXP1013.

To use the scenario is necessary to set on the DCRG8 controller in the menu M16-COMMUNICATION the following communication parameters (where n=number of the COM port associated to the EXP1013 module):

- P16.n.01 = 1 (serial node address)
- P16.n.05 = Modbus TCP (protocol)
- P16.n.06 = 192.168.1.1 (IP address)
- P16.n.07 = 255.255.255.0 (subnet mask)
- P16.n.08 = 1001 (TCP-IP port)
- P16.n.09 = slave (channel function)
- P16.n.10 = server (client/server function)

Step 2: configuration of the HMI LRH series

1. Open the software LRH SW.
2. To open a project clic on **File** → **Open** and select the folder *Scenario_DCRG8_PFC*.

3. Inside the folder *Scenario_DCRG8_PFC* there are 3 project files, one for each model of HMI LRH series. Select the scenario suitable for the model of HMI in your possession (e.g. If you have an HMI type LRHA07 open the folder *DCRG8_LRHA07*).
4. From the folder selected at point 3, open the project file with extension *.jpr (e.g. *DCRG8_LRHA07.jpr*).
5. Download the project inside the HMI by following the instructions reported in the technical manual of the programming software LRH SW (Instruction I578, downloadable from Lovato Electric website: http://www.lovatoelectric.com/HandlerDoc.ashx?s=I578GB03_18.pdf&ic=108).
6. Connect the DCRG8 controller equipped with the optional the optional EXP1013 Ethernet module to the HMI LRH series with an Ethernet cable.
7. Test the functioning.