

SCADA for LVDAC-EMS

Take control of your electrical engineering lab



Highlights

- Monitor and control several workstations from one (or more) supervisory computer(s)
- Use OPC server protocol to communicate between the different workstations
- Include your own pictures and schematics
- Introduce SCADA into your existing EMS laboratories

Computer-based data acquisition and control

Education in electrical engineering at Festo Didactic is largely based on our unique electric power technology training platform, which combines hardware, software, and courseware to allow study of electrical energy.

At the heart of the systems are the data acquisition and control interface (DACI) and the four-quadrant dynamometer/power supply. When used in combination with LVDAC-EMS software program, students have access to a complete set of computer-based instruments to measure, observe, analyze, and control electrical and mechanical parameters of a workstation on their computers.

Supervisory control and data acquisition (SCADA)

Our state-of-the-art training platform has just been enhanced through the integration of a new SCADA-EMS feature, a software program designed to run in combination with LVDAC-EMS.

SCADA-EMS transforms LVDAC-EMS and the workstation's computer into a local workstation that can be monitored and controlled over a local network from a supervisory computer.

Using the OPC Server protocol, SCADA-EMS enables users to design their own interface by calling the different applications running on the local workstations.

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A new solution for creating a SCADA system

SCADA-EMS enhances LVDAC-EMS by adding several new features. You will be able to:

- Collect data from local workstations.
- Observe and control one or more stations from one or more supervisory stations.
- Remotely control several applications in your lab.
- Use a workstation in a different room to make real demonstrations over the network in your classroom without having to bring your workstation to class.
- Introduce students to the fundamentals of SCADA in a smart grid context.
- Recreate a complete grid with several different applications running.

Order information

The SCADA-EMS software program can be downloaded from our website. This locked version can be unlocked by a USB dongle. A dongle unlocks five workstations; order as many dongles as required.

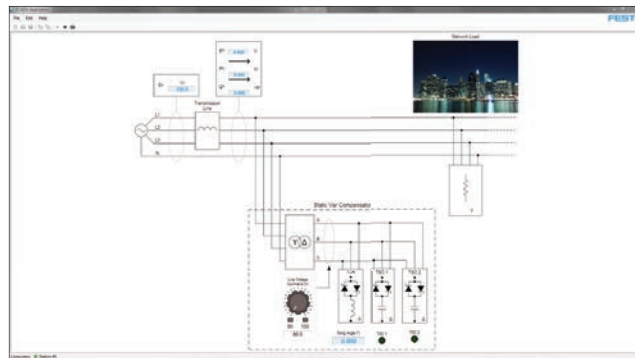
Before ordering the dongles, please install:

- LVDAC-EMS (version 3.19 or later) on all your workstation computers.
- SCADA-EMS (1.01 or later) on the workstation computers you want to use to build up your SCADA application.

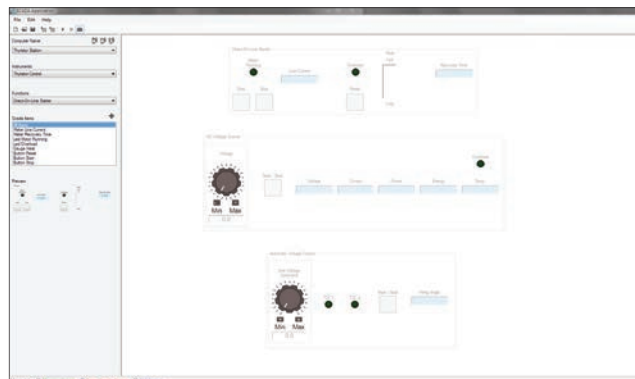
Contact your sales representative about order details and options.



1



2



3

- 1 LVDAC-EMS standard application (left) and SCADA-EMS (right) running the same application remotely.
- 2 A picture was added by the user in the SCADA window of a Static Var Compensator application.

- 3 SCADA-EMS is connected to three stations: the Direct On-Line Starter (DACI), the DC Voltage Source (Dynamometer), and the Automatic Voltage Control (DACI). Individual station controls and displays are configured by the user.

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