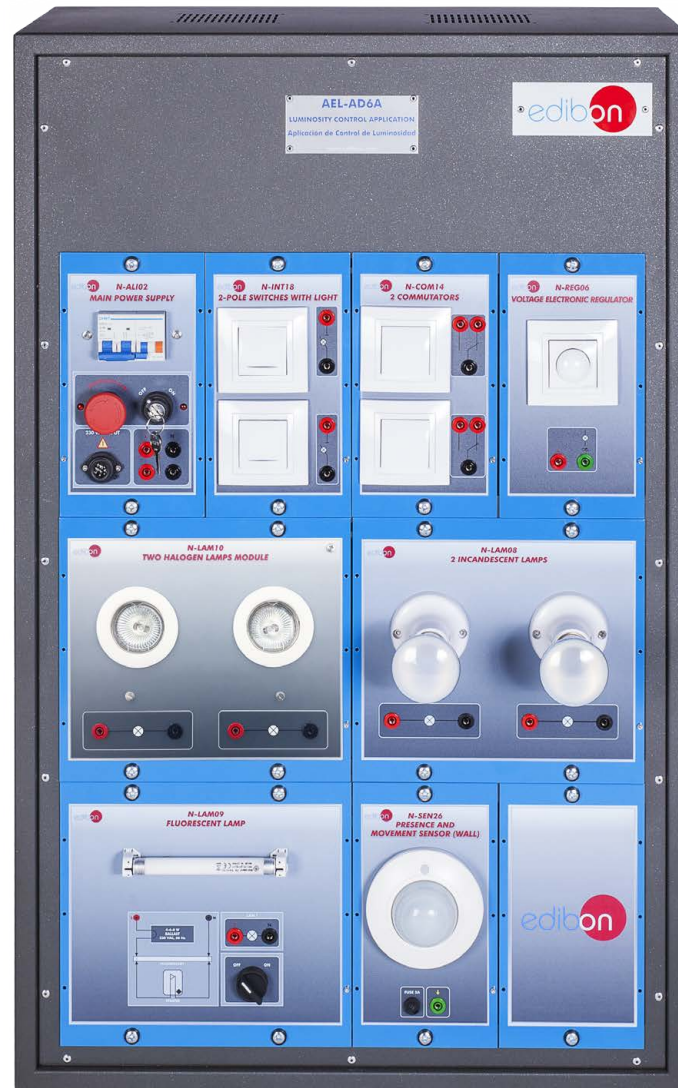




INTRODUCTION

As the technology develops, it is usually to move towards more efficient and energy saving devices. In the case of lighting, many technologies have appeared that are much more efficient in terms of consumption and construction materials. However, it is also important the automation of lighting to decrease the energy consumption. This is the case of automatic lighting, a technology which uses sensors to detect values such as ambient brightness levels or motion detection so lighting conditions can be adjust to the needed ones.



Certificate of Approval of the
Quality Management System



European Union Certificate
(total safety)



UL and CSA Regulations
(All our products are manufactured according
to current UL and CSA regulations)



Certificate of Approval of the
Environmental Management System



Worlddidac Association
Certificate of Membership

GENERAL DESCRIPTION

The Luminosity Control Application, "AEL-AD6A" has been designed by EDIBON to study how a luminosity control application works. This unit consists of different modules such as switches with lights, fluorescent lamps, halogen lamps, presence and movement sensor, etc. These modules allow the students to acquire experience wiring of lighting automation circuits and circuit-switched.

This application has a motion sensor that can be connected to the lighting circuit to realize different automations. Besides, through this unit, the student can study different cabling made in these installations.

The "AEL-AD6A" application includes the following elements:

- N-ALI02. Domestic Main Power Supply Module.
- N-INT18. 2-Way Single-Pole Switch Module.
- N-COM14. Two Commutators Module.
- N-REG06. Voltage Electronic Regulator (Switch) Module 40 to 300 W / 230 VAC.
- N-LAM08. Two Lamp-holders + Incandescent Lamps Module.
- N-LAM09. Fluorescent Lamp Module.
- N-LAM10. Two Halogen Lamp Module.
- N-SEN26. Presence and Movement Sensor (Wall) Module.

The application "AEL-AD6A" can be mounted on rack (option A) or on rail (option B):

Option A:

This application needs the following rack:

- N-RACK-A.

Optionally the AEL-WBR, Electrical workbench (rack) can be supplied to place the rack/s.

Option B:

This application can be mounted on rail.

Optionally the AEL-WBC, Electrical workbench (rail) can be supplied to mount the modules.

The "AEL-AD6A" application includes the following elements:

- **N-ALI02. Domestic Main Power Supply Module.**

Supply voltage (single-phase): 230 VAC, 1PH + N.

ON / OFF removable key.

Output voltage connections:

Two single-phase: 230 VAC.

Single-phase supply hose connecting plug.

Differential magnetothermal 2 poles, 25 A, 30 mA AC 6 KA.

Emergency stop push button.



N-ALI02

- **N-INT18. 2-Way Single-Pole Switch Module.**

Nominal voltage: 230 VAC (PH + N).

Two switches ON / OFF.

Two normally open contacts (NO).



N-INT18

- **N-COM14. Two Commutators Module.**

Nominal voltage: 230 VAC (PH + N).

Two commutators.

Contacts:

Two normally open contact (NO).

Two normally close contact (NC).

Common point of normally close/open contacts.



N-COM14

- **N-REG06. Voltage Electronic Regulator (Switch) Module 40 to 300 W / 230 VAC.**

It works with incandescent lamps and with halogens, but not with fluorescents.

Nominal voltage: 230 VAC (PH + N).

Two terminals:

Red (L).

Green.

Potentiometer.

ON / OFF switch (pressing).

Maximum turn: 270° (regulate the voltage level).



N-REG06

- **N-LAM08. Two Lamp-holders + Incandescent Lamps Module.**

Nominal voltage: 230 VAC (PH + N).

Two bulbs:

Consumption: 40 W each.

Two terminals each one.



N-LAM08

- **N-LAM09. Fluorescent Lamp Module.**

Nominal voltage: 230 VAC (PH + N).

Switch ON / OFF.

Fluorescent lamp.

Nominal power: 4 W.

Supply terminals (LN).



N-LAM9

- **N-LAM10. Two Halogen Lamp Module.**

Two halogen lamps:

Nominal voltage: 12 VAC.

20 W each one.

Terminals:

Two terminals (PH + N) each lamp.

Nominal voltage: 230 VAC.



N-LAM10

Specifications

- **N-SEN26. Presence and Movement Sensor (Wall) Module.**

Supply voltage: 230 VAC (PH + N).

Output terminal: Green terminal. It supplies when the motion sensor detects any movement.

Three knobs to be configured:

Meter: to set the detection distance up to about 8 M.

Time: to set the ON time from about 6 seconds to a 12 minutes maximum. This period starts after body movement within detection area is sensed.

Lux: to set the light level required for operation to start at the required light level.



N-SEN26

- **All necessary cables to realize the practical exercises are included.**

Cables and accessories, for normal operation.

Manuals:

This unit is **supplied with the following manuals**: Required services, Assembly and Installation, Starting-up, Safety, Maintenance & Practices manuals.

EXERCISES AND PRACTICAL POSSIBILITIES

- | | |
|--|--|
| 1.- Checking the domestic main power supply.
2.- Light control from a switch.
3.- Light control from two devices.
4.- Control of fluorescent tube with different control circuits.
5.- Variation of the luminous intensity: halogen and incandescent lamp. | 6.- Switching control of the lamp using a movement sensor. |
|--|--|

REQUIRED SERVICES

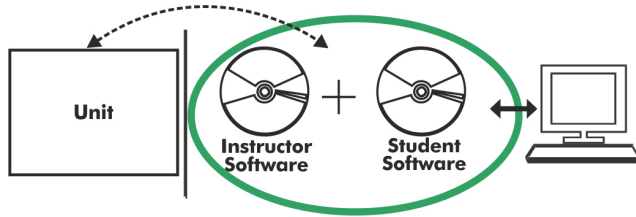
- | |
|--|
| - Alimentation électrique : monophasé, 200 VAC – 240 VAC/50 Hz ou 110 VAC – 127 VAC/60 Hz, 1 kW. |
|--|

DIMENSIONS AND WEIGHTS

- | |
|---|
| AEL-AD6A:
- Dimensions: 640 x 320 x 920 mm approx.
(25.19 x 12.59 x 36.22 inches approx.)
- Weight: 40 Kg approx.
(88 pounds approx.) |
|---|

SIMILAR UNITS AVAILABLE

- | | |
|---|------------------------------------|
| - AEL-AD6A. Luminosity Control Application. | <u>Offered in this catalog:</u> |
| - AEL-AD6B. Basic Luminosity Control Application. | <u>Offered in others catalogs:</u> |
| - AEL-AD5. Lighting Application with Timer Switch. | |
| - AEL-AI13-E. Electrotechnics Application (Lighting). | |

AEL-AD6A/ICAI. Interactive Computer Aided Instruction Software:

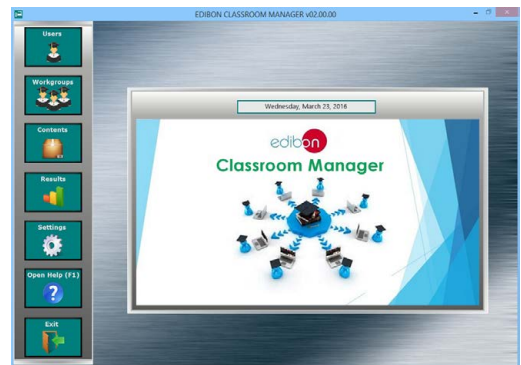
With no physical connection between unit and computer, this complete software package consists of an Instructor Software (EDIBON Classroom Manager -ECM-SOF) totally integrated with the Student Software (EDIBON Student Labsoft -ESL-SOF). Both are interconnected so that the teacher knows at any moment what is the theoretical and practical knowledge of the students.

Instructor Software**- ECM-SOF. EDIBON Classroom Manager (Instructor Software).**

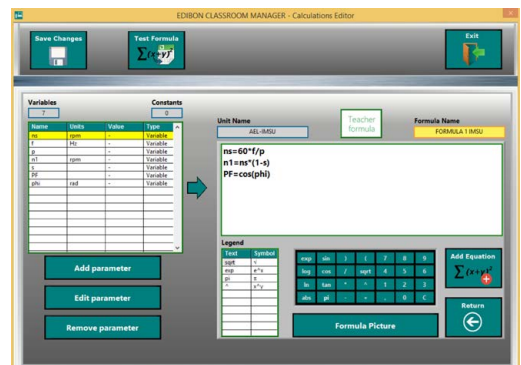
ECM-SOF is the application that allows the Instructor to register students, manage and assign tasks for workgroups, create own content to carry out Practical Exercises, choose one of the evaluation methods to check the Student knowledge and monitor the progression related to the planned tasks for individual students, workgroups, units, etc... so the teacher can know in real time the level of understanding of any student in the classroom.

Innovative features:

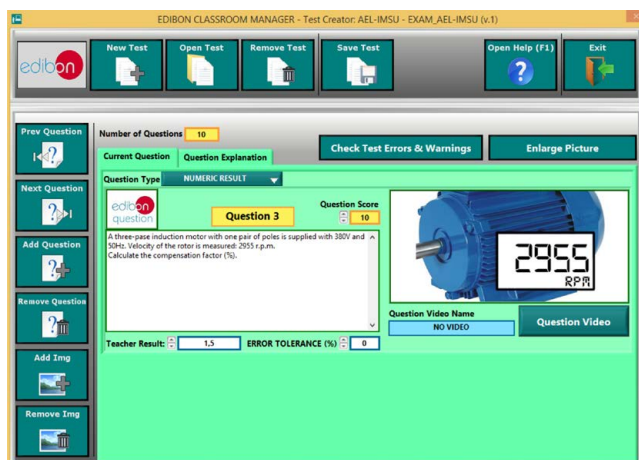
- User Data Base Management.
- Administration and assignment of Workgroup, Task and Training sessions.
- Creation and Integration of Practical Exercises and Multimedia Resources.
- Custom Design of Evaluation Methods.
- Creation and assignment of Formulas & Equations.
- Equation System Solver Engine.
- Updatable Contents.
- Report generation, User Progression Monitoring and Statistics.



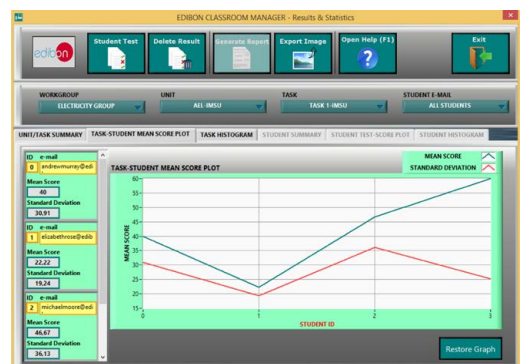
ECM-SOF. EDIBON Classroom Manager (Instructor Software) Application Main Screen



ECAL. EDIBON Calculations Program Package - Formula Editor Screen



ETTE. EDIBON Training Test & Exam Program Package - Main Screen with Numeric Result Question



ERS. EDIBON Results & Statistics Program Package - Student Scores Histogram

- **ESL-SOF. EDIBON Student Labsoft (Student Software).**

ESL-SOF is the application addressed to the Students that helps them to understand theoretical concepts by means of practical exercises and to prove their knowledge and progression by performing tests and calculations in addition to Multimedia Resources. Default planned tasks and an Open workgroup are provided by EDIBON to allow the students start working from the first session. Reports and statistics are available to know their progression at any time, as well as explanations for every exercise to reinforce the theoretically acquired technical knowledge.

Innovative features:

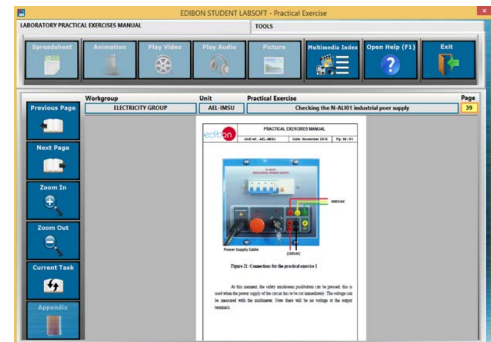
- **Student Log-In & Self-Registration.**
- **Existing Tasks checking & Monitoring.**
- **Default contents & scheduled tasks available to be used from the first session.**
- **Practical Exercises accomplishment by following the Manual provided by EDIBON.**
- **Evaluation Methods to prove your knowledge and progression.**
- **Test self-correction.**
- **Calculations computing and plotting.**
- **Equation System Solver Engine.**
- **User Monitoring Learning & Printable Reports.**
- **Multimedia-Supported auxiliary resources.**

For more information see ICAI catalogue. Click on the following link:

www.edibon.com/en/interactive-computer-aided-instruction-software



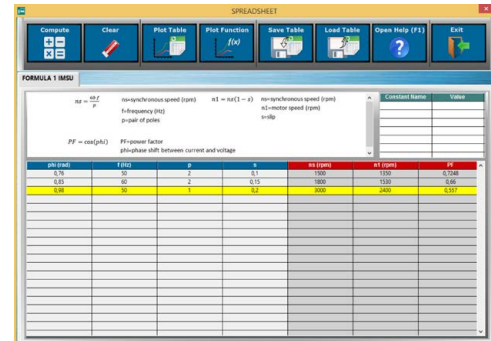
ESL-SOF. EDIBON Student LabSoft (Student Software)
Application Main Screen



EPE. EDIBON Practical Exercise Program Package Main Screen



ERS. EDIBON Results & Statistics Program Package - Question Explanation



ECAL. EDIBON Calculations Program Package Main Screen

* Specifications subject to change without previous notice, due to the convenience of improvement of the product.



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REPRESENTATIVE:

