

LIGHT SOURCES and ENERGY SAVING TECHNOLOGIES in LIGHTING ENGINEERING TRAINER



Overview

The educational system is dedicated for studying the disciplines of energy efficiency in lighting engineering. The system allows the students to get acquainted to main light sources, their working principles and characteristics. The students will learn about the advantages and disadvantages of different light sources in terms of energy efficiency and usability in different applications.

List of Experiments

- ✓ Main Characteristics of the Incandescent Lamp
- ✓ Main Characteristics of the Halogen Lamp
- ✓ Main Characteristics of the LED Lamp
- ✓ Main Characteristics of the Linear Fluorescent Lamps of Low Pressure
- ✓ The Use of Motion Sensors to Reduce the Energy Consumption of Electric Lighting Systems
- ✓ The Use of Photo Relay to Reduce the Consumption of Electric Lighting Systems
- ✓ The Use of Timers to Reduce the Consumption of Electric Lighting Systems
- ✓ The Use of Dimmers to Reduce the Consumption of Electric Lighting Systems
- ✓ Comparison of the Energy Efficiency of Various Light Sources

Benefits

- ✓ Ability to get acquainted to the types and working principles of different light sources
- ✓ Ability to study the usability of light sources in different applications
- ✓ Ability to study the energy efficiency technics in lighting

Specifications

Parameter	Value
Number of RTUs	1
Voltage Analog inputs	3-channels, 300Vrms, 50kS/s, 24-bit, simultaneous
Wolfram lamp	1, 220VAC, 60W
Halogen lamp	1, 12VDC, 30W
LED lamp	1, 12VDC, 10W
Luminescent lamp	1, 12V, 30W
Brightness sensor	0-100000lux, 4-20mA

Software Screenshot

