

# Handheld DALI MCU LED Streetlight Analyzer

LED Luminaire Diagnostic  
& Commissioning Tool

Testing Dimming and  
Electrical Performance of  
a Zhaga Book 18 D4i LED  
Streetlight Luminaire



## Product Overview

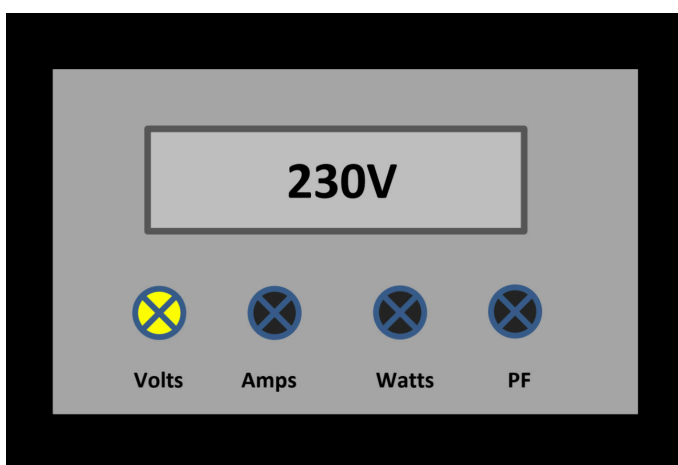
The Westire Handheld DALI MCU Streetlight Photocell Analyser for Zhaga Book 18 D4i is designed to test the switching on/off, dimming, voltage, amps, current, watts, and power factor of streetlight luminaires in the workshop. The analyzer displays AC volts, amps, watts, and power factor in two modes: continuous in auto cycling or fixed universal mode, within an operating range of 85-264V AC (47-63Hz) (Measurement Category II). These measurements are essential for use in the workshop prior to the installation of the streetlight luminaire or after repairs.

## Features

- **Versatile Testing:** Measures on/off switching, dimming, volts, amps, watts, and power factor.
- **Compatibility:** Works with Zhaga Book 18 luminaire sockets, DALI2, and D4i drivers.
- **Simple Operation:** Directly fits into Zhaga socket to perform dimming tests and check electrical characteristics.
- **Dimming Control:** Manual on/off and dimming control via DALI MCU.
- **Convenient Testing:** Works easily with workshop mains socket for quick setup.

## How it Works

The DALI MCU allows manual on/off and dimming control of streetlight luminaires with a DALI interface. The DALI MCU can be directly fitted into the streetlight luminaire Zhaga socket, similar to fitting a Zhaga photocell, to perform the dimming test. Once the DALI MCU is inserted into the socket, the dimming test is simple—just rotate the potentiometer wheel. Checking the volts, amps, watts, and power factor is straightforward by connecting the tester’s mains plug into the workshop mains socket and then connecting the luminaire’s mains lead into the safe block connected to the tester.



## Applications

- Measurement of the electrical power on/off and dimming characteristics of a streetlight fixture.
- A tool for verifying streetlight functionality in the workshop, ensuring that the installation team will install a fully operational luminaire suitable for its intended purpose.
- Tests and confirms the full functionality of a luminaire in the workshop, specifically when equipped with a DALI2 / D4i Driver and Zhaga Socket



## Technical Specifications

General	
AC Voltage	85 V - 264 VAC
Operating Frequency	47 - 63Hz
Sampling rate	2 - 3 samples/sec
Display	4-digit LED
Overrange Indicator	Flashing '9999' W
Power Accuracy	±0.1%
Power Factor Accuracy	±3%
Voltage Accuracy	±1%
Current Accuracy	±1%

Environmental	
Operating Temperature	0° C - 60° C
Enclosure Material	Polycarbonate

Standards Compliance	
Standards Compliance	UL, CSA, IEC/EN 61010-1