



DLC Light Control Unit MK16802BD

for Datek Light Control System

The Datek Light Control Unit (LCU) is a component in the comprehensive Datek control and management solution for outdoor public lighting. Together with field based ZigBee RF gateways and a cloud based server, optimization for energy use, maintenance, and light pollution is greatly simplified with substantial cost savings.

Technical description

The LCU can manage any light fixture, LED or conventional, through standard dimming interfaces such as digital DALI, analog 0-10 V or contact closure relay. It continuously measures and log parameters such as real power, power factor, mains voltage, current, and temperature.

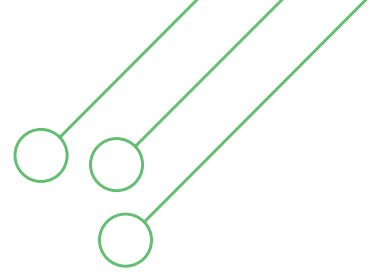
Built on a wireless MESH topology all LCU's act as communication routers for extended network coverage. Ideal for both retrofit or new installations.

Fail safe operation is inherent in the design and all links in the line of communication is equipped with local logic to handle any disruptions. With over-the-air (OTA) software upgrades, the customer is always assured an up to date solution with the newest features and functionality.

With power metering certification from Justervesenet, and tested according to applicable standards by NEMKO the customer is assured a product of the highest quality.

Designed for mounting externally to the luminaire the LCU is equipped with an internal chip antenna with no need for a separate external antenna placement.

Ordering information:
101360 - DLC Light Control Unit MK16802BD



Technical specifications	Operating voltage: 215-245 Vac, Class II Energy consumption < 2W (excluding pass-through supply to luminaire) Antenna: Internal chip configuration RTC with power backup for autonomous fail-safe operation OTA for FW upgradable Radio transceiver: EM 357, 2.4GHz (ZigBee) Energy Meter: ADE 7763
Interfaces	Analog dimming 1-10V. Min 1V, Max 11V DALI master. Max current sink $\leq 2\text{mA}$ per node, Max 4 nodes. (Up to 64 nodes if DALI bus is galvanically isolated and powered separately). Biphase signaling and bitrate 1200 bits/s $\pm 10\%$. Pass through, relay switched, luminaire supply Max 4A
Environmental specifications	Storage Temperature: -40 - +80 Operating Temperature: -30 - +70 Humidity (RH, non condensing): 5-90% Ingress Protection: IP-67 Weight: 132g External dimension: W 105 x H 42,5 x D 75 mm Mounting hole dimension $\varnothing 20$ mm, thickness of material Max 11 mm
Approvals	Radio: EN 300 328 V1.8.1 LITE: EN 61347-1:2008;A1;A2 & EN 613472-11:2001 EMC: EN 301 489-17 V2.2.1 & EN 301 489-01 V1.9.2 Metering: EN 50470-3 Accuracy class B, outdoors



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