# modaLIGHT®
## SPECIFICATION

The Pharos LPC (Lighting Playback Controller) is an award-winning, all-in-one control solution for themed entertainment and LED lighting installations. It features individually controllable and independently running timelines and scenes, letting you build dynamic, precise, fully customisable pre-programmed lighting effects with the freedom of real-time manual overrides and the versatility of powerful show control and integration features.

## TRIGGERING & INTERGRATION

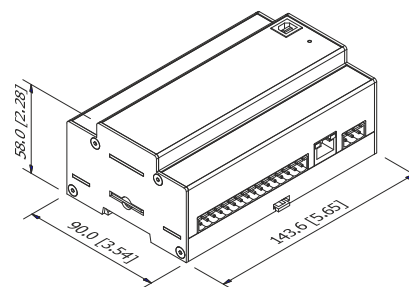| | |
|---|---|
| Startup | Commences programmed playback automatically on receiving power |
| Contact Closure | Connect an external volt-free switch between input and ground (internal 2.2k pull-up to 5V) |
| Digital In | Connect an external voltage source between input and ground (24V maximum; internal 2MOhm pull-down to 0V); software-configurable low/high threshold |
| Analog In | Connect an external voltage source between input and ground (24V maximum); software-configurable range |
| Clock | Battery-backed real-time clock for calendar and time-based triggers |
| Astronomical | Sunrise/Sunset/Twilight and Lunar phases |
| Ethernet | UDP, TCP, Multicast; send/receive any Ethernet message |
| Serial Data | RS232, RS485; configurable port; send/receive free syntax in ASCII, HEX or decimal |
| MIDI | MIDI Notes, SysEx or Timecode |
| Timecode | Linear Timecode via RIO A (SMPTE, Film, EBU, NTSC) |
| Audio Level | Stereo 30-band spectrum analysis via RIO A |
| DMX | Trigger on changes within a range or entering a range |
| eDMX | sACN or Art-Net (option to pass-thru on local DMX output) |
| DALI | Trigger on any message, via RIO D |
| Web Interface | Built-in or custom designed |
| Wall Stations | Integrate with BPS or TPC |
| Conditions | Full conditional logic support |
| Scripting | Lua scripting for total flexibility |
| Scalable | Supports Pharos Remote Devices |

## SUPPORTED FIXTURES

| | |
|---|---|
| LEDs | LEDs in any colour configuration (RGB, RGBW, 8-bit, 16-bit, tuneable white) |
| Automated | Moving heads, yokes or scanners |
| Generic | Downlights, spotlights, uplights, etc. via controllable dimmers, relays or ballasts |
| Fountain Jets | Fountain jets for fountain animation or other animatronics |
| Fixture Library | Pharos offers a cloud library with over 13,000 fixture profiles, for easy download of your luminaires |

## OUTPUT

| | |
|---|---|
| DMX512 | 2 ports (max 512 channels each) USITT E1.11-2008 |
| RDM | Supports discovery and addressing via Designer software |
| sACN | ANSI E1.31 (with per fixture priority) standard |
| Art-Net | ArtNet, ArtNet II and ArtNet III (configurable broadcast override) |
| KiNET | KiNET V1 (DMX out) and V2 (Port out); PDS/Data Enabler discovery |
| Pathport | Pathway Connectivity protocol |
| DALI | Via RIO D (supplied separately) |
| Scalable | Synchronises with up to 40 Pharos Controllers over network |
| Simultaneous | Multiple protocols can be in operation simultaneously. Limited by patched channels, not universes used |

## DIMENSIONS

58.0 [2.28]
90.0 [3.54]
143.6 [5.65]

## STANDARDS & CERTIFICATIONS

CE    ETL

5 YEAR WARRANTY

Project Name:

Notes:

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| | |
|---|---|
| **Certifications** | CE compliant, ETL/cETL listed |
| **Power** | 9V to 48V DC * or PoE (IEEE802.3af, Class 2) 4W typical |
| **Data Storage** | Removable SD Card (supplied) |
| **Temperature** | 0°C to 50°C (32°F to 122°F) |
| **Physical** | 8 unit wide DIN rail mounting enclosure (DIN43880 / EN60715 (35/7.5 rail)) |
| **Weight** | 0.5 kg (1.1 lbs) |
| **Shipping** | 20 x 15 x 12 cm (8" x 6" x 5") 0.8 kg (1.8 lbs) |
| **Recovery** | Hardware watchdog and recessed reset buttonl |
| **Warranty** | 5 years |

## INTERFACES

| | |
|---|---|
| **Ethernet** | RJ45 socket for 10/100Base-TX Ethernet with Link/Data LEDs; Fixed IP or DHCP; Dual IP address for eDMX |
| **DMX512** | Two isolated DMX ports, RDM compatible * |
| **Serial** | RS232 / RS485 / DMX in * |
| **Inputs** | Eight inputs, individually selectable operating mode for contact closure, digital or analogue input * |
| **MIDI In & Out** | MIDI via 5-pin DIN 41524 socket |
| **USB-B Socket** | USB 1.1 for connection to PC |

* Install-friendly 0.200" (5.08mm) plug in rising clamp  connectors (included)

## ORDER CODE &VARIANTS

| | |
|---|---|
| **LPC 1** | Lighting Playback Controller 1 (512 channels DMX/eDMX) |
| **LPC 2** | Lighting Playback Controller 2 (1,024 channels DMX/eDMX) |
| **LPC 4** | Lighting Playback Controller 4 (2,048 channels eDMX incl 1,024 ch DMX) |