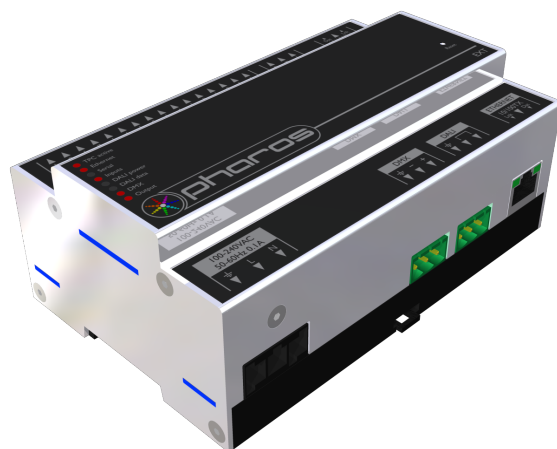## OVERVIEW

The Pharos EXT is an extension for the Pharos Touch Panel Controller (TPC). The TPC is a powerful lighting controller with Ethernet-based output and integration options. However, many DMX and DALI installations don't need the added complexity of network infrastructure. The EXT provides local DMX and DALI output for the TPC, as well as power and other hardware interfaces, creating a standalone lighting control system.

The EXT connects to its TPC via a Cat 5e or Cat 6 cable, which carries power and data. The EXT is powered from 100-240VAC mains. In addition to DMX output for the TPC's 512 control channel capacity, the EXT supports a DALI bus connection to send & receive DALI control messages. Other interfaces are RS232 serial and 8 digital/analog inputs for triggering the TPC. The EXT also has its own Ethernet interface to allow some or all of the TPC's control channels to be sent as Art-Net, KiNet, sACN or Pathport.

The EXT requires no additional configuration in the Pharos Designer software - everything is programmed via the TPC in the Designer project file, as if the TPC supported all the additional hardware interfaces directly.

The EXT and companion TPC can be used as part of a wider Pharos system using the EXT's Ethernet interface, allowing larger installations to use multiple Pharos Controllers and Remote Devices.

The EXT is provided in a compact DIN-rail compatible housing for mounting within an electrical cabinet, or alternatively it can be wall mounted. For easy installation most connections are provided as plug-strips. The solid state design with efficient, embedded firmware ensures unparalleled reliability.

KEY FEATURES

- Extension for the Pharos TPC, creating a standalone lighting control system.
- Supplies power and data to connected TPC.
- DMX port provides straightforward DMX512 output from a TPC.
- Supports RDM discovery and addressing.
- DALI bus for DALI lighting control output and triggering from DALI messages.
- RS232 serial and 8 digital/analog inputs augment triggering options on the TPC.
- Ranging power supply for worldwide mains voltage support.
- Programmed seamlessly as an extension of a TPC using the Pharos Designer software.
- Integrates with other Pharos Controllers and Remote Devices across an Ethernet network.
- Firmware updated automatically via TPC.
- Solid state, instant-on, fit & forget solution.

SPECIFICATIONS

General:

- Microprocessor based system specifically designed as a companion to the Pharos TPC for the control of lighting in an architectural or entertainment application.
- Direct connection to TPC via Cat 5e or Cat 6 cable, not more than 100m in length.
- Operating system stored in non-volatile solid-state memory.
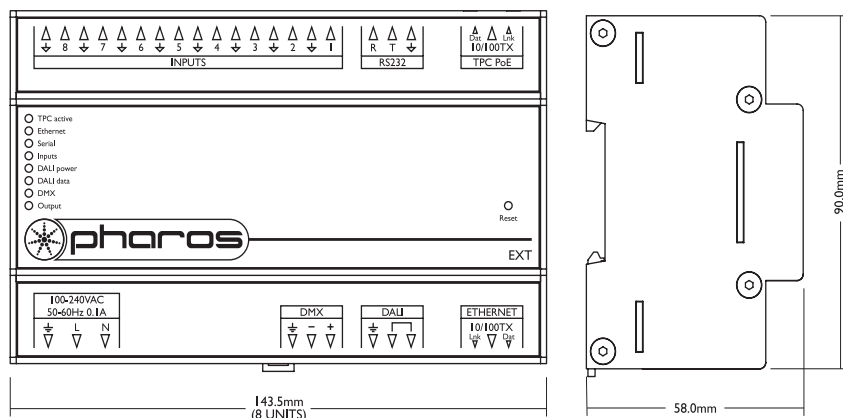- 5 year warranty.

Physical:

- Enclosure and mounting complies with DIN43880 and EN60715 (35/7.5 rail) respectively.
- 8 unit wide DIN enclosure.
- Operating temperature range 0°C to 50°C (32°F to 122°F).
- **CE** compliant and **ETL/cETL** listed.

Electrical:

- Supply requirements 100-240VAC / 50-60Hz / 0.1A.
- Typical power consumption 10W (with TPC connected).
- Isolated DMX512 port, RDM compatible.
- RS232 serial port.
- DALI bus connection isolated from network.
- Individually selectable digital or analog inputs (8).
- Tri-mode digital inputs: active high, low or contact closure.

In addition there are the following standard connectors:
- RJ45 socket with PoE for connection to TPC.
- RJ45 socket for 10/100Base-TX Ethernet.

SYSTEM INTEGRATION & TOPOLOGY