

RIO D4

RIO D4 INSTALLATION

The Pharos RIO D4 (Remote DALI 4-Port) is an ancillary device that provides additional DALI ports to a system. As such, it can not be used on its own but must have at least one controller present on an Ethernet network to function. The unit is designed to be permanently installed in a central control room/cupboard or DIN consumer unit for remote deployment.

The unit is 100% solid state and has been qualified to operate in a dry environment:

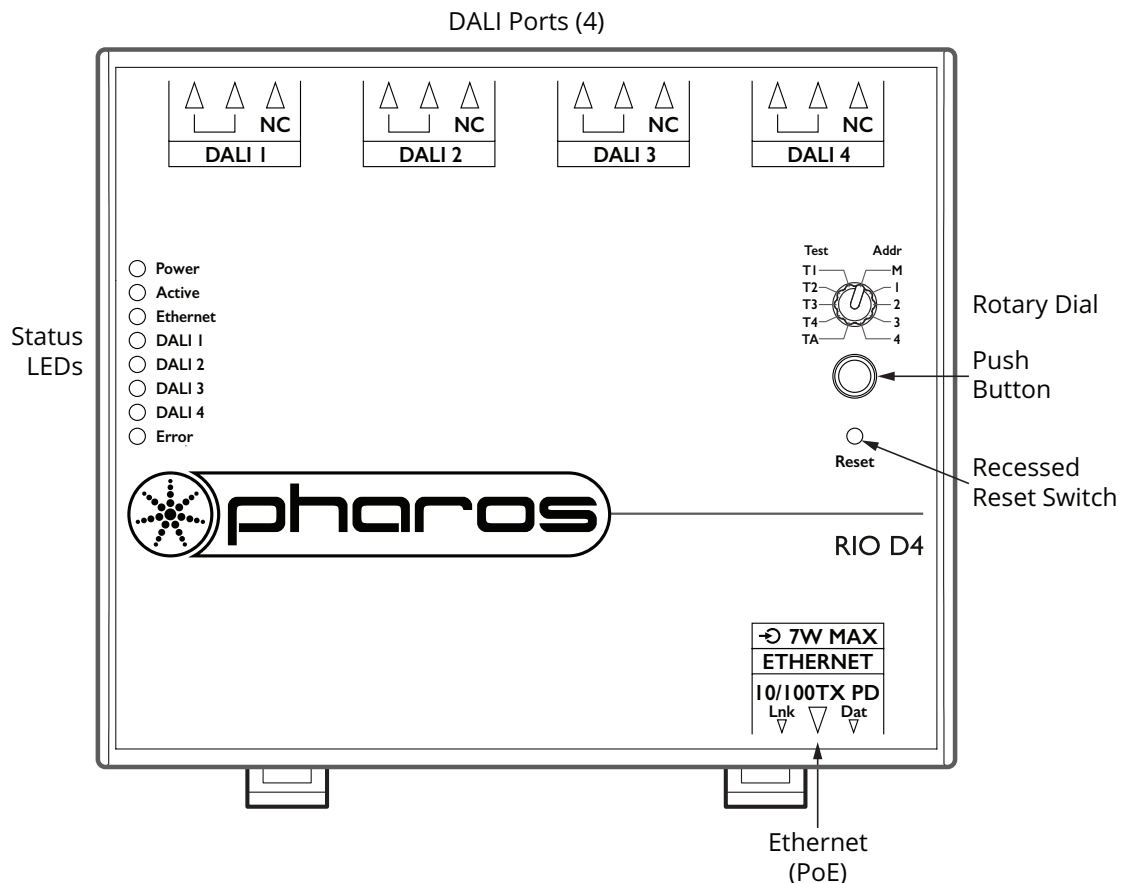
- Temperature range 0°C to 50°C (32°F to 122°F)
- Humidity 10-90% relative, non-condensing
- Ingress IP40

Sealed IP65 rated consumer units are available for outdoor use, please consult your Pharos distributor or representative.

NOTE: This equipment is not suitable for use in locations where children are likely to be present.

RIO D4 LAYOUT

The following drawing illustrates the layout of the repeater, refer to the following sections for details:



POWER SUPPLY

The RIO D4 is shipped without an external power supply.

- Power-over-Ethernet (PoE)

A standard (802.3af) Power-over-Ethernet switch should be used to provide both power and a network connection to the RIO D4 using a single cable.

Alternatively, if a PoE switch is not available, a compliant PoE midspan injector could be used.

The RIO D4 operates as a PoE Class 2 device (7W max).

STATUS LEDS

The red LEDs on the top of the RIO D4 indicate the unit's status:

Power: Indicates that power has been applied.

Active: Indicates that the unit is functional.

Ethernet: Indicates Pharos related network activity (not network link, see Ethernet port later).

DALI 1-4: Illuminates with power on the corresponding DALI bus and flashes off/on with DALI data activity. Off if power is not detected on the DALI bus.

Error: Flashes to indicate an error condition.

ERROR CODES

Additionally, the red status LEDs are used to indicate any boot failures of the RIO D4 that prevent the unit from operating. Error codes are displayed by a repeating pattern of flashing LEDs a number of times in succession, followed by a 1 second pause:

1 flash: Invalid firmware version (reset to factory default required).

2 flashes: Invalid device type or serial number.

The second error code indicates a hardware error; please consult your distributor, representative or Pharos Support for assistance.

