

### RIO G4

#### RIO G4 INSTALLATION

The Pharos RIO G4 (Remote Gateway 4-Port Device) is an ancillary device that provides additional DMX/RDM output 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:

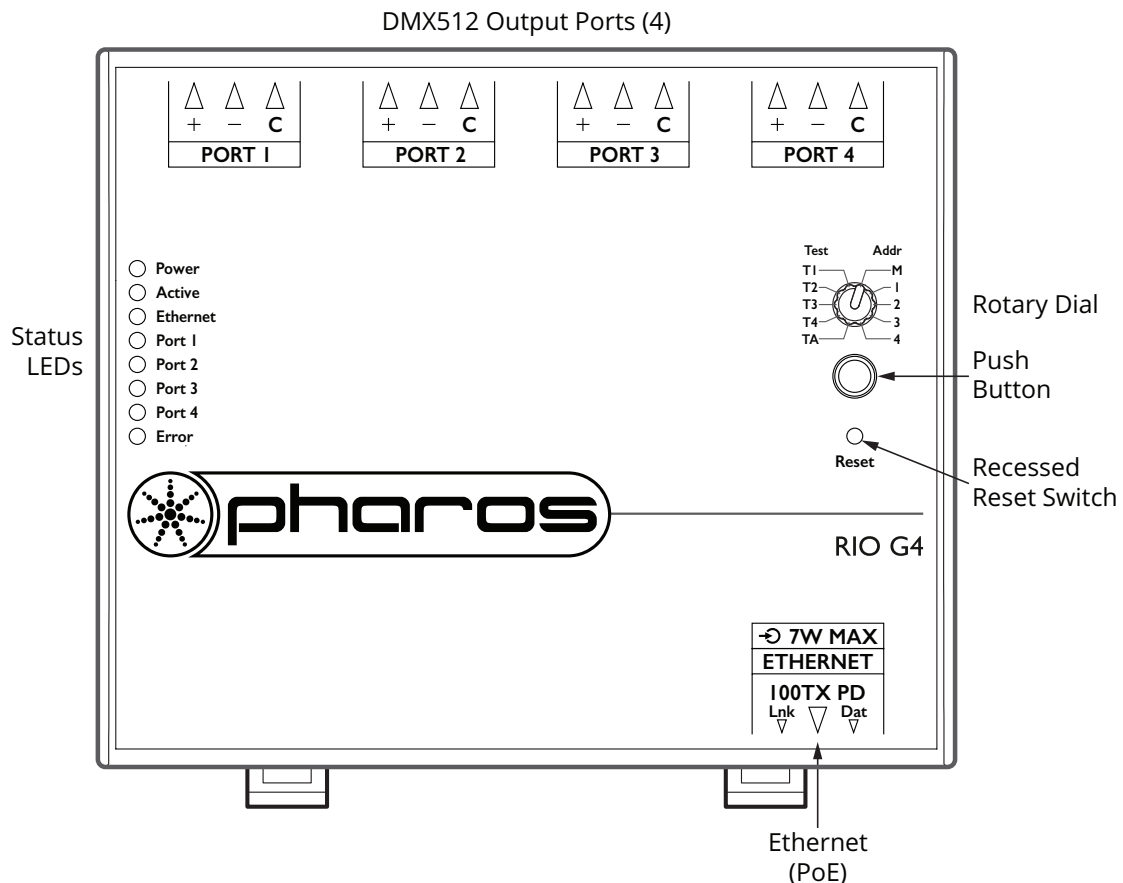
- Temperature range 0°C to 50°C (32°F to 122°F)
- Humidity 10-90% relative, non-condensing
- Ingress IP40

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 G4 LAYOUT

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



## POWER SUPPLY

The RIO G4 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 G4 using a single cable.

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

The RIO G4 operates as a PoE Class 2 device (7W max).

## STATUS LEDS

The red LEDs on the top of the RIO G4 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). |
| Port 1-4: | Indicates output on the corresponding data port.                                       |
| Error:    | Flashes to indicate an error condition.                                                |

## ERROR CODES

Additionally, the red status LEDs are used to indicate any boot failures of the RIO G4 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.

## ROTARY DIAL AND PUSH BUTTON

