# **Powering on and off** your PromethION 24/48 A-Series

**Place these instructions next to your PromethION device.**

**It is important to power on and off the PromethION device according to the instructions below to minimise the potential for device error.**

## Powering on

1. Ensure there are **no flow cells or Configuration Test Cells (CTCs)** in the Sequencing Unit.
2. Press the **power switch** at the back of the Sequencing Unit and **wait for 3 minutes**.
3. Press the **power button** on the top of the Data Acquisition Unit.

## Powering off

1. **Ensure that no experiments are running**
   An indication that no experiments are running is the lack of an Experiment status bar underneath the flow cell on the Sequencing Overview page in the MinKNOW™ user interface. All flow cells or Configuration Test Cells (CTCs) should be removed from the device before powering off.
2. Select **Host settings** in the side bar, then click the **Shutdown** button in the main window. Confirm shutdown in the pop-up box.
3. **Important:** Only turn off the **Sequencing Unit** (using the **power switch** on the back of the device) once the Data Acquisition Unit has fully shut down.
4. Turn off both devices at the **main power supply**.

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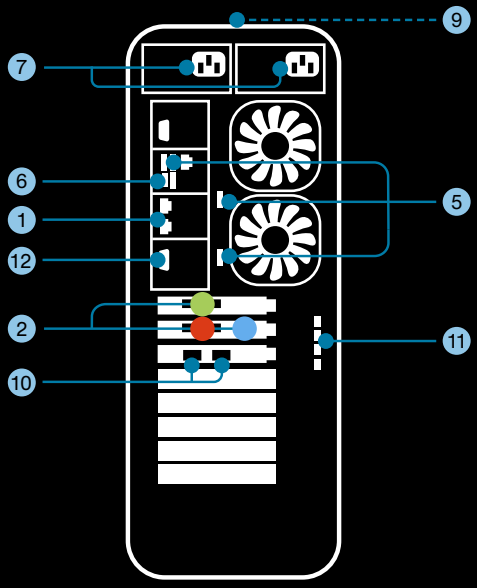
# PromethION

## A-Series Data Acquisition Unit

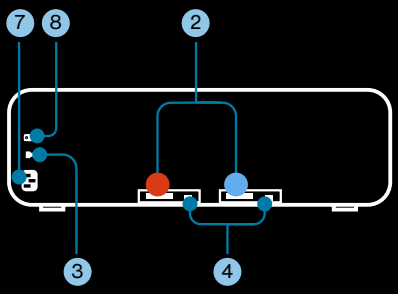
### Device connections

1. 10G Ethernet ports
2. PCIe cable ports
3. USB-B port
4. Mini USB ports
5. USB-A ports
6. USB-C port
7. Power sockets
8. Power on/off
   - Sequencing Unit
9. Power on/off
   - Data Acquisition Unit
10. Fibre Optic SFP Connector
11. Mini display ports
12. VGA port



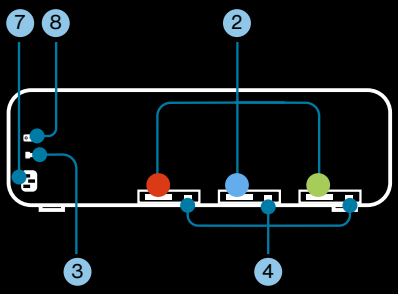

## PromethION 24

### Sequencing Unit




## PromethION 24

### Sequencing Unit




**www.nanoporetech.com**

# PrometheION 24/48

## A-Series Data Acquisition Unit

## Quick start guide

This Quick start guide contains everything you need to set up your PromethION™ 24/48 A-Series and to check the device is ready for use.

**For detailed information and troubleshooting, view the User Manual.**

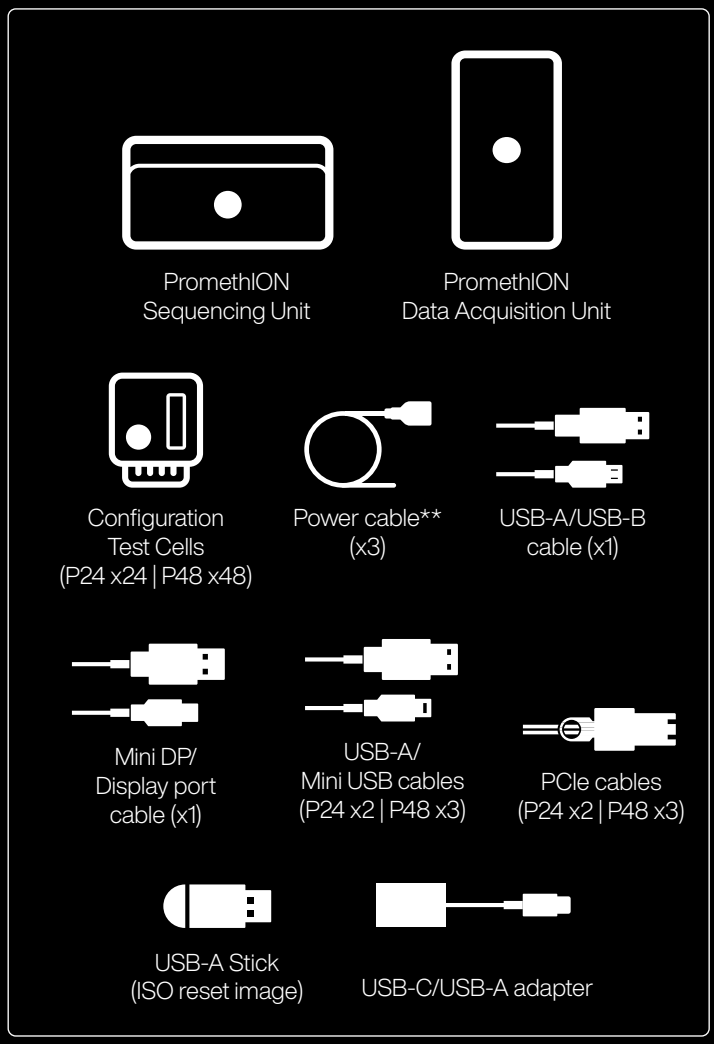
# Pre-installation

Before using the device, familiarise yourself with the following

**PromethION 24/48 A-Series User Manual**
community.nanoporetech.com/to/promethion

**Safety and regulatory information**
community.nanoporetech.com/to/safety

## What's in the box:*




* Peripherals not supplied: monitor (Display port or VGA compatible), USB keyboard, USB mouse, Ethernet cable.

** The Data Acquisition Unit ships with 10 power cables (2 x US, 2 x UK, 2 x EU, 2 x CN, 2 x AUS), the Sequencing Unit ships with 5 power cables (1 x US, 1 x UK, 1 x EU, 1 x CN, 1 x AUS). Only those shipped with each unit must be used with that unit.

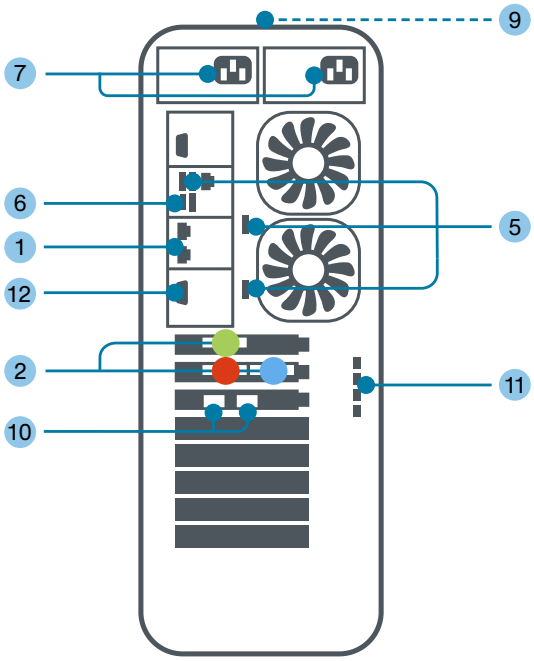
# 1 **Set up** and **power on** your device

## PrometheION

### A-Series Data Acquisition Unit

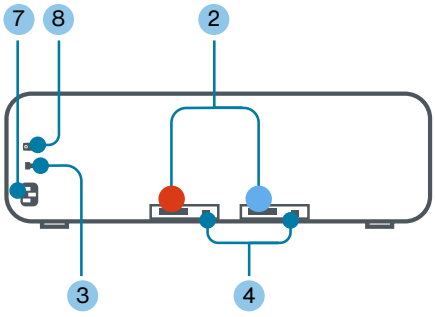
#### Device connections

1. 10G Ethernet ports
2. PCIe cable ports
3. USB-B port
4. USB-Mini ports
5. USB-A ports
6. USB-C port
7. Power sockets
8. Power on/off
   - Sequencing Unit
9. Power on/off
   - Data Acquisition Unit
10. Fibre module cages
11. Mini display ports
12. VGA port



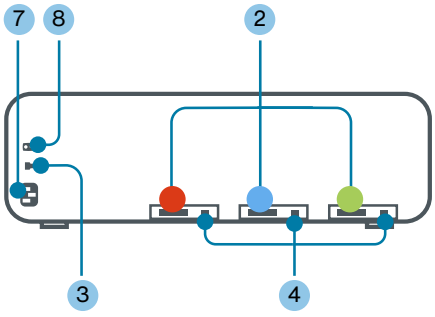

## PrometheION 24

### Sequencing Unit




## PrometheION 48

### Sequencing Unit



1. Unbox your **PromethION**
   Place the Sequencing Unit and Data Acquisition Unit on a bench less than 2 m from each other. Ensure at least 30 cm clearance around **both** the Sequencing Unit and the upright Data Acquisition Unit. **The devices must be placed away from direct sources of heat or sunlight.** Without sufficient airflow, the devices **will encounter problems with temperature regulation, which will have a detrimental effect on performance.**

2. Attach **network cables**
   Connect the bottom Ethernet port 1 of the Data Acquisition Unit to an Ethernet port running a DHCP service using a single copper Ethernet cable. For fibre optic installations, refer to the PromethION User Manual.

3. Attach **PCIe cables**
   Connect the Sequencing and Data Acquisition units using the supplied PCIe cables (x2 for P24; x3 for P48) 2 according to the port-to-port colour coding shown in the diagram (🔴🔵🟢).

4. Attach **USB cables**
   Connect x1 USB-B 3 and x2 (P24) or x3 (P48) Mini USB 4 cables to the Sequencing Unit. Connect the other end of the cables to the USB-A ports 5 on the Data Acquisition Unit.

5. Attach **peripherals**
   Connect a monitor to a Mini display port 11 or the VGA port 12 (do not connect both VGA and Mini display at the same time) on the Data Acquisition Unit. Switch on the power to the monitor. Connect a mouse and keyboard via the USB inputs 5 on the Data Acquisition Unit.

6. Attach **power cables** and **power on**
   **Important:** This step must be performed in the order described below, and **use the power cables with the Data Acquisition Unit for the Data Acquisition Unit and the power cables with the Sequencing Unit for the Sequencing Unit**.

   a. Attach the power cable to the Sequencing Unit 7, turn on the power at the mains socket and then toggle the power switch at the rear of the unit 8.
   b. Wait 3 minutes.
   c. Connect the two power cables to the Data Acquisition Unit 7 and turn the mains power on. Press the power button 9 to turn on the Data Acquisition Unit.
   The boot screen will appear on the monitor.

## 2 **Log in** and **activate** your device

1. **Log in** to your PromethION
   Password: **prom.**

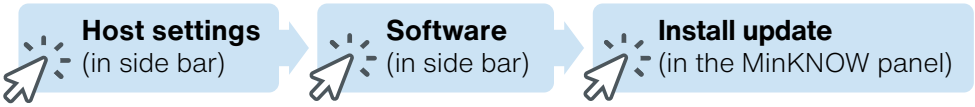
2. Open **MinKNOW™**
   Click the wheel icon on the desktop and log in using your Nanopore Community account.




**Tip:** View the pop-up tutorials to learn how to navigate the user interface.

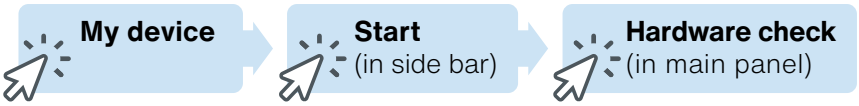
# 3 Check for updates

New software updates will be displayed automatically when opening MinKNOW. You can also manually check and install updates following the workflow below.




# 4 Perform **hardware check**

To ensure the device is working as expected, insert all the Configuration Test Cells (CTCs) into the device and follow the workflow below to initiate the hardware check. On-screen instructions will guide you through the process.




**Hardware check overview:**

1. Insert the CTCs into the device using the instructions in the User Manual.
2. Wait until all of the LEDs on the device light up green. Then, in the MinKNOW software, the flow cell status indicators (the 24 or 48 boxes) will change colour from grey to white.
3. Press **Select all available.** This will change the colour of the flow cell status indicators (the 24 or 48 boxes) on the MinKNOW Hardware check panel to dark blue.
4. Press **Start** in the bottom right.
5. Check the flow cell positions show a ✔ to pass the hardware check.

For more information, refer to the User Manual (**community.nanoporetech.com/to/promethion**)

## 5 **Power down** the device

The PromethION must be shut down according to the steps below to prevent potential device errors. Please place the **Powering on and off your PromethION 24/48 A-Series** flyer that accompanies this Quick start guide next to your PromethION device to support other users.

1. Ensure that no experiments are running and remove all flow cells or Configuration Test Cells (CTCs).
2. Select **Host settings** in the side bar, then click the Shutdown button in the main window. Confirm shutdown in the pop-up box.
3. **Important:** Only turn off the **Sequencing Unit** (using the **power switch** on the back of the device) once the Data Acquisition Unit has fully shut down.
4. Turn off both devices at the **main power supply**.

## 6 Discover the **Nanopore Community**

community.nanoporetech.com

Ensure the **success** of your nanopore sequencing project and **stay up-to-date** with the latest technology and **protocol updates**.

Use the web browser on your PromethION to navigate to the Nanopore Community.

# Additional information

**Storage and warranty**
PromethION 24/48 A-Series: Do not expose device to temperatures outside of 5–40°C. For flow cell warranty information, see **community.nanoporetech.com/to/warranty**

**Recycle used flow cells**
Oxford Nanopore is committed to environmental sustainability. Please help us by sending back your PromethION Flow Cells for recycling. Find out how: **community.nanoporetech.com/support/returns**

**Place your next order**
Order more PromethION consumables at the Oxford Nanopore store: **store.nanoporetech.com**

**Documentation**
PromethION 24/48 A-Series IT requirements, User Manual, and an online version of this Quick start guide are available at: **community.nanoporetech.com/docs**

**Support**
Our technical specialists will be in contact with you shortly to ensure the device is set up correctly. If you encounter issues at any point, please contact **support@nanoporetech.com** or visit **community.nanoporetech.com/support**

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