

How to replace the power supply of an optical power meter



Overview

This document is a user's guide for the OPM 5 Series Optical Power Meters made by Noyes Fiber Systems.

Key Takeaways

Replacing the power supply of an optical power meter typically involves removing the old batteries or disconnecting the AC adapter and installing new batteries or a compatible power source according to the manufacturer's specifications. Step 1: Identify the Power Source

Most portable optical power meters use either dry batteries, rechargeable batteries, or an optional AC adapter:

- Agilent N3970A: two 1.5V dry batteries (Alkaline C) or two 1.2V rechargeable batteries; do not exceed 1.8V to avoid damage .
- OPM-1315: standard 9V battery or optional AC power supply for continuous operation .
- Thorlabs S120: NiMH batteries installed in a rear battery holder; some models also support AC adapters .
- Yokogawa AQ2180: four batteries with polarity markings; low-battery indicator shows remaining charge .

Step 2: Power Down the Device

Before replacing the power supply, turn off the meter and disconnect any AC adapter. This prevents electrical shorts and protects the internal circuitry.

Step 3: Access the Battery Compartment

- Locate the battery cover on the back or bottom of the meter.
- Remove screws if present (commonly Phillips head) to open the compartment .
- For meters with rechargeable packs, gently disconnect the battery terminals.

Step 4: Remove Old Batteries

- Take out the old batteries carefully, noting the polarity markings (+ and -) inside the compartment.

- Dispose of used batteries according to local regulations.

Step 5: Install New Batteries or Connect AC Adapter

- Insert new batteries matching the required type and voltage, ensuring correct polarity .

- If using an AC adapter, connect it to the designated power input port and ensure it matches the meter's voltage and current specifications.

Step 6: Close the Compartment and Test

- Replace the battery cover and secure any screws.
- Turn on the meter to verify proper operation. Check the display for battery status or power indicator.

Safety Tips

- Do not mix battery types (e.g., alkaline with rechargeable) to avoid leakage or damage.
- Avoid using batteries with higher voltage than specified, as this can permanently damage the meter .
- Handle rechargeable batteries carefully, and follow manufacturer instructions for charging and replacement.
- If the meter shows unusual behavior after replacement, consult the manufacturer or authorized service center before further use . By following these steps, you can safely replace the power supply of your optical power meter and ensure reliable operation for field or laboratory measurements.

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