

Smart dimmer module

NS-DMD | 1 CHANNEL | ZIGBEE | NEUTRAL REQUIRED

ISOLATE BEFORE OPENING OR WIRING

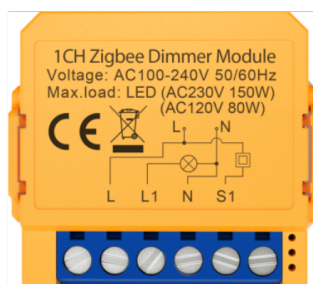
Installation and electrical testing by a qualified electrical installer. Isolate, secure against reconnection and prove dead. A wall switch or app OFF command does not provide safe isolation.

01 / IDENTIFICATION & RATINGS

Model	NS-DMD / single-channel Zigbee dimmer module
Supply	100-240 V AC, 50/60 Hz; active L and neutral N required
LED load rating	150 W at 230 V AC; 80 W at 120 V AC
Connections	L supply; N neutral; L1 dimmed output; S1 switch input
Communication	Compatible NETUS gateway and NETUS App
Size / environment	39 x 39 x 19 mm; IP20; -10°C to +40°C

Use compatible dimmable LED lamps or drivers. Confirm the dimming method, driver inrush and load compatibility for the delivered unit. The published LED ratings do not establish ratings for motors or other load types.

02 / FIT & SECURE



Single-channel module

01 Check the installation point

Confirm a neutral conductor is available. Provide a suitable dry enclosure, cable clearance and space for the module and any mounting bracket.

02 Connect and enclose

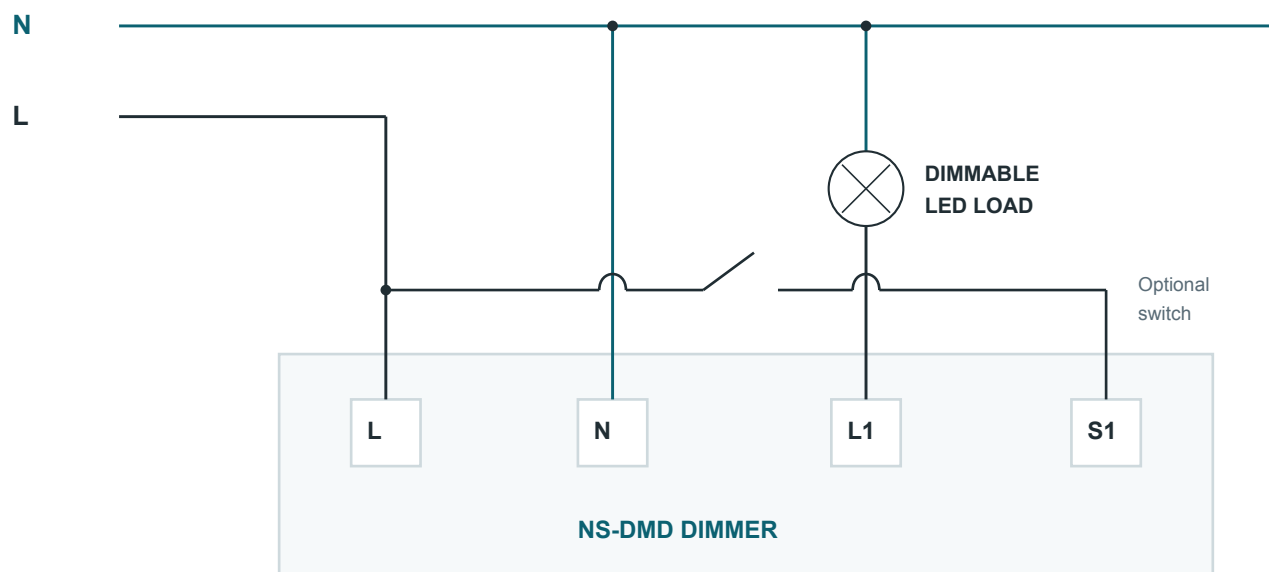
Wire as shown on page 2. Secure the module without trapping conductors or straining terminals. Refit all covers before energising.

Obtain terminal torque, conductor size and strip length for the delivered unit before installation. Body dimensions exclude any additional mounting clearance.

Connect the lighting circuit

FUNCTIONAL DIAGRAM / SINGLE CHANNEL

Use the terminal markings on the delivered unit. This diagram shows electrical connections, not physical terminal positions. L1 is a mains dimming output.



Connect the lamp or driver between L1 and the same circuit neutral. For app-only operation, leave S1 unconnected. The optional external switch connects L to S1; this input is at mains potential.

TERMINAL SCHEDULE

L	Incoming supply active.
N	Supply neutral; lamp neutral returns to the same circuit.
L1	Dimmed active output to the compatible LED load.
S1	External switch input. Confirm supported switch type and local dimming behaviour for the supplied firmware.

BEFORE ENERGISING

Check polarity, termination security, load suitability, circuit protection and enclosure. Maintain protective-earth continuity to fittings as applicable; do not connect PE to S1 or L1. Complete installation tests using methods suitable for connected electronics.

Add the dimmer in the app

03 Prepare the NETUS App

Sign in and select the correct Home. Add a compatible NETUS gateway and check that it is online. Follow the gateway instructions for its network connection.

04 Power up and enter pairing mode

After electrical verification, energise the enclosed dimmer. Place it in Zigbee pairing mode using the procedure specified for the delivered NS-DMD module.

The supplied specification does not state the pairing button sequence or hold time. Obtain the NS-DMD pairing procedure from NETUS before commissioning.

05 Add through the gateway

Open the gateway in NETUS App and select Add subdevice (or Add device). Start discovery with the dimmer in pairing mode and within gateway range. Follow the prompts until it is added.

06 Name the device

Choose a clear name such as Living Room Dimmer, assign its room and save. Open the dimmer control page and identify its on/off and brightness controls.

07 Check basic operation

Test app ON and OFF, then adjust brightness gradually. Confirm the correct light responds. Test any connected local switch and complete the checks on page 4.

IF THE DEVICE DOES NOT APPEAR

Check gateway status, Zigbee range and the module pairing procedure. Retry discovery through the gateway device page. If the module also fails locally, isolate before checking supply, neutral and wiring.

Menu labels and available settings depend on the NETUS App and installed firmware.

Set up and test dimming

LED COMPATIBILITY / STABLE BRIGHTNESS

08 Check the usable dimming range

With the selected LED load connected, start at a high brightness and reduce it gradually. Check for flicker, drop-out, unstable light output or abnormal noise throughout the intended range.

09 Adjust available dimming settings

If the device page provides minimum brightness or dimming-range settings, adjust them to maintain stable operation. If a dimming-mode setting is available, use only a mode supported by both the module and the connected lamp or driver.

CONFIRM THE DIMMING METHOD

The supplier specification does not identify leading-edge or trailing-edge operation, a minimum load, or a guaranteed dimming range. Confirm these for the intended LED load.

10 Check local controls and routines

Test the connected wall switch. Confirm its on/off and dimming actions for the selected switch type. Where available, configure schedules or countdowns in NETUS App and verify them.

TROUBLESHOOTING

Flicker or drop-out: confirm that the lamp or driver is dimmable and compatible, check the load against the rating at the actual supply voltage, and review any available minimum-brightness setting.

No light or no local response: isolate before checking L, N, L1, S1 and the lamp connections. Do not parallel dimmer outputs or connect another mains dimmer in series with L1.

TEST & HAND OVER

Test ON/OFF and brightness after power restoration and with the gateway or internet unavailable. Record the working brightness range and show the owner which controls remain available.

Installer / date: _____ LED load: _____ W Tested: _____