

MDIM-485 INSTALLATION GUIDE

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Connect Power Supply

Choose ONE power option (6-24 VDC):

Option A - Screw Terminal:

- Connect +VDC and GND to marked terminals
- Ensure correct polarity
- Tighten screws firmly

Option B - DC Power Jack:

- Use DC barrel jack connector (6-24 VDC), 1A Output current.
- Red Power LED will turn ON when powered
- ⚠ WARNING:** Do NOT connect both power inputs simultaneously!

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Connect Communication Interfaces

RS-485 Connection:

- Connect A, B, and GND terminals to your RS485 slave device
- Verify correct polarity (A ↔ A, B ↔ B)

Ethernet Connection:

- Connect CAT5e/CAT6 cable to LAN port
- Connect other end to network switch/router

Wi-Fi Connection:

- Ensure external antenna is securely attached

💡 TIP: Power OFF device before connecting/disconnecting serial lines

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Default network information

Network Interface	IP configuration	IP Address	Gateway	Netmask
LAN	Static	10.18.8.204	10.18.8.1	255.255.255.0

1. Connect Your Computer

- Connect the device and your PC to the same local network using an Ethernet cable.
- You may connect directly to a router, switch, or PC LAN port.

2. Configure Your PC Network

- Open Network Settings → IPv4 Settings.
- Set a static IP in the same subnet:
 - IP Address: 10.18.8.100 (any IP from 10.18.8.2–10.18.8.253)
 - Subnet Mask: 255.255.255.0
 - Gateway: 10.18.8.1

3. Download Configuration Tool

- Visit: www.machdatum.com/devices/interface/mdim485
- Download, install, and launch the MDIM-485 Configuration Tool.

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4. Connect to Device

- Open the Configuration Tool.
- Scan for the device and add it. Ensure the device is online.
- Once the connection is established, proceed to configure the device with your desired settings.
- Ensure that the new configurations are applied correctly before proceeding.
- After this, the device will proceed with **RS-485 to Ethernet/Wi-Fi conversion**, enabling data communication between RS485 slave devices and the network.

Verify LED Indicators

LED	Colour	Function
Power	Red	Device powered ON (steady)
Transmit	Green	Data transmission (blinks)
Receive	Red	Data reception (blinks)
Status	White	Boot status (see below)

Status LED Blink Patterns:

- **2 Blinks** = Device starting up
- **3 Blinks** = Default configuration loaded
- **4 Blinks** = Access Point (AP) mode active

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FACTORY RESET

To restore default settings:

1. Press and hold the Boot button for 3 seconds
2. White LED will blink 3 times
3. Device automatically restarts with factory defaults

⚠ WARNING: This erases all custom settings!

IMPORTANT NOTES

1. By default, the device operates in Ethernet mode with static IP.
2. Only ONE network interface can be active at a time:
 - Enabling Ethernet disables Wi-Fi
 - Enabling Wi-Fi disables Ethernet
3. Default mode: Ethernet with Static IP

Additional Resources

- **Product Website:** www.machdatum.com
- **Technical Support:** support@machdatum.com
- **Documentation:** www.machdatum.com/devices/interface/mdim485

For detailed information about the device, including the User Manual and Datasheet, please download the documents from the product website.

For any assistance, contact Technical Support.