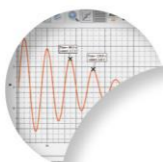


Labdisc dymo

*Dymo Force ACC Wireless
Sensor for Physics*



Quick Start Guide

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1. Dymo Sensor Hardware Overview

1.1 What's in the Pack

- ① Dymo sensor
- ② USB cable
- ③ Bumper head
- ④ Warranty page
- ⑤ Quick Start Guide

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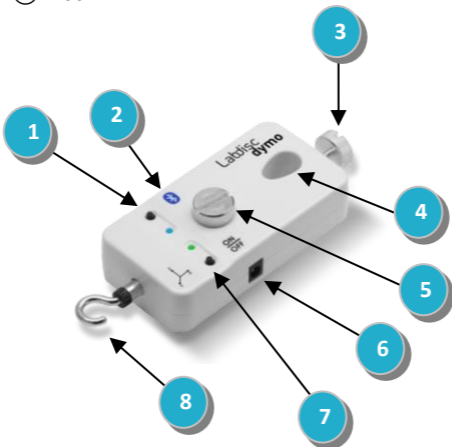
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1.2 Ports and Controls

The picture below reviews the **Dymo** ports, controls and indicators:

- ① Bluetooth key and LED
- ② USB port
- ③ Lab stand locking screw
- ④ Lab stand hole
- ⑤ Screw for locking to a trolley
- ⑥ Charger input
- ⑦ On/Off key and LED
- ⑧ Hook



1.3 Hardware Specifications

Parameter	Specification
Measurement	Force, 3-axis acceleration
Force Range	± 50 N
Acceleration Range	± 8 g
Sampling Rate	500 Hz
Transmission Rate	<ul style="list-style-type: none"> • PC/MAC: 25 times per second • iPad: 10 times per second
Onboard Memory	None
GlobiLab Software Communication Interface	<ul style="list-style-type: none"> • Bluetooth • USB cable
External Power Supply	6V AC/DC adapter (use Labdisc adapter)
Internal Battery Type	Single 3.7 V Li-PO cell
Push Buttons	<ul style="list-style-type: none"> • On/Off button: On, Run, Stop (short press), Off (long press) • Bluetooth button (long press for pairing)
Communication LED	LED (Blue)
Working Mode LED	Bi-color LED (Red, Green)

1.4 Dymo Operation, Keys and Indicators

Operation	Key	LED indicator
Turn Dymo on	Press On/Off key when Dymo is Off	On/Off LED flashes green
Turn Dymo off	Press On/Off key for 3 seconds when Dymo is On	Both LED off
Start logging data	Press the On/Off key when the Dymo is On	On/Off LED constant green light
Stop logging data	Press On/Off key when Dymo is logging data	On/Off LED flashes green
Bluetooth pairing	Press Bluetooth key for 3 seconds	Bluetooth LED flashes 3 times in blue, then turns off.
Zero Force Offset	Turn Off the sensor. Remove any weight from the Force sensor. Disconnect it from the computer. Turn the sensor On. Press BOTH keys for 3 seconds.	After both keys are pressed for 3 seconds, Bluetooth LED lights in constant blue
Battery charging	N/A	On/Off LED slow flashing red.
Low battery	N/A	On/Off LED fast flashing red light

2 Dymo Sensor – GlobiLab Communication

2.1 USB Communication

Upon USB cable connection between the computer and the **Dymo**, the **GlobiLab** software automatically detects the USB connection and begins communicating with the sensor.

2.2 Bluetooth Wireless Communication

Before wireless communication with a **Dymo** for the first time, the **Dymo** should be added as a device to the computer in a process called pairing. Pairing need be done only once for the **Dymo**, after which the computer stores the connection information, including a unique name for each **Dymo** sensor. When no **Dymo** is connected via USB, the computer will automatically try to wirelessly connect to the last connected **Dymo**. To connect to a different or a new **Dymo**, right click on the Bluetooth icon in the GlobiLab *status bar*,




located at the bottom right corner of the screen, then click on the **Dymo** you want to connect to.

2.2.1 Set the Dymo to “pairing mode”

1. Turn on the **Dymo**.
2. Press the **Dymo** Pairing button for at least three seconds until the Pairing LED flashes green three times. The **Dymo** is now in Bluetooth mode.

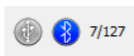
2.2.2 Pairing with Windows OS

1. Start the GlobiLab software.
2. Right click the **Bluetooth**  icon, located on the **status bar** at bottom right corner of the GlobiLab.
3. This action opens a pop-up menu. From the menu select "**find more Labdisc and sensors**". The computer opens the "**add a device**" dialog box and starts searching for the Bluetooth device.
4. Your **Dymo** will be displayed as "**Dymo_xxxx**" where "xxxx" are the 4 last digits of the **Dymo** serial number sticker. Select this device and press **Next**.
5. Select the 2nd option: "**Enter the device pairing code**" and press **Next**.
6. In the next dialog box enter "1234" as the pairing code and click **Next**. Wait for the computer to finish the process and announce that the **Dymo** and computer were paired successfully.
7. Right click the **Bluetooth** icon on the **status bar**. Choose the **Dymo** you've just paired and click on it. The Computer will connect to the **Dymo** and will turn the **Bluetooth** icon blue.

2.2.3 Pairing with a Mac OS


1. Open the **Bluetooth** menu from the Mac menu bar and select "Set Up Bluetooth Device...".
2. A dialog box opens. Your **Dymo** will be displayed as "**Dymo_xxxx**" where "xxxx" are the 4 last digits of the **Dymo** serial number sticker. Select this device and press **Continue**.

3. Put your **Dymo** in pairing mode again (see 2.2.1)
4. In the next dialog box press the “**Passcode Options...**” button and select the 3rd option: “**Use a specific passcode**”. Enter the passcode “1234”, press “**OK**” and “**Continue**”.
5. When the wizard action is complete wait for the computer to confirm that the **Dymo** was added successfully. The **Dymo** is now paired, and the software can connect to it.
6. Open the **GlobiLab** software.



7. Right click the **Bluetooth** icon located at the bottom right corner of the software.
8. Choose the **Dymo** you’ve just paired and click on it. The computer will connect to the **Dymo** and turn the **Bluetooth** icon blue.

2.2.4 Pairing with an iPad

1. Launch the iPad Setting 
2. Open Bluetooth. Make sure the iPad Bluetooth is on.
3. From the devices list click the **Dymo_XXXX**, where the **XXXX** digits match the last 4 digits of your **Dymo** serial number sticker on the **Dymo** back cover.
4. The iPad will ask for a PIN code. Enter “1234” and click Pair.
5. The iPad will show **Dymo_XXXX** connected.