# Thermo Scientific<sup>™</sup> DeviceLink<sup>™</sup> Connect LAN (Ethernet) Commissioning/Setup

Commissioning of the DeviceLink Connect can be done both via Wi-Fi, as described in the Getting Started section of the user manual, or via a direct LAN (ethernet) connection between the DeviceLink Connect mote and a computer. The following guide describes the commissioning process via LAN.

#### **Components Needed:**

- (1x) DeviceLink Connect mote (provided with your DeviceLink Connect kit)
- (1x) PoE wall adapter and PoE cable (provided with your DeviceLink Connect kit)
- (2x) Ethernet cables
- (1x) Computer

#### Hardware Setup:



- The DeviceLink Connect needs to have an active network connection on the "POE LAN" port, either via a PoE network jack, or via the PoE power injector "IN" port (as shown above)
- The DLC port labeled "LAN" is for ethernet commissioning **only**. It is not for providing a long-term network connection to the device



#### Commissioning Procedure:

- 1. On your computer, navigate to your network settings and configure your ethernet/LAN port with the following static IP:
  - a. IP: 192.168.5.10
  - b. Subnet mask: 255.255.255.0
  - c. Gateway and DNS servers should be blank

For more information on configuring a static IP, refer to the <u>Configuring your ethernet (LAN) port</u> below.

- 2. Open a web browser and navigate to: http://192.168.5.5:9292/dlc
- 3. You will be prompted to login. The first time you login use the following credentials:
  - a. Username: admin
  - b. Password: changeThisPassword

After logging in you will be prompted to change the password and re-login with the updated password.

4. Upon loading, the commissioner will display a status header bar at the top of the screen. If the DeviceLink Connect has an active network connection via the POE LAN port, as described above, and is able to connect to the Thermo Connect (cloud) network, "WiFi" will show a *dash* symbol. You will also see an *Online* indication in the left navigation menu. If there is no connection established, the status bar will be a *red X*.

OeviceLink Connect	× +					×
$\leftrightarrow$ $\rightarrow$ C $\blacktriangle$ Not	t secure   <b>dlc.local</b> :9292/dlc#/sensors	Q	☆	⊜	Incognito	:
Online			the	rmo	scient	ific
Welcome	See the required configuration sections below to complete the setup process.					

If the device is offline (no connection):

- a. Verify the cable connections are as indicated in the above hardware setup
- b. Consult your network/IT administrator as the DeviceLink Connect may need to be whitelisted on your network. Ports may also need to be opened. Refer to the *Ports and Whitelisting* guide below for more information.
- 5. Continue the commissioning of your device per the DeviceLink Connect Quick Start Guide starting with the setup of your **Sensors**.

## Configuring your ethernet (LAN) Port

#### Windows PC:

- 1. Navigate to the Control Panel
- 2. Select Network and Sharing Center
- 3. Select Change adapter settings



- 4. Select your ethernet adapter from the list
- 5. Select Change settings of this connection

👰 Network C	onnections							_
$\leftarrow \  \   \rightarrow \  \             $	1 😨 > Control Panel > Netv	vork and Internet → Network 0	Connections		~	ē	S	earch Ne
Organize 🔻	Disable this network device	Diagnose this connection	Rename this connection	View status of this connection	Change settings of this	conne	ction	
×3	Bluetooth Network Connection Not connected Bluetooth Device (Personal Ar	Ethernet NETGEAR67-5G Realtek USB Gbl	E Family Contr					

6. Select the TCP/IPv4 from the connection list

#### 7. Select Properties

Ethernet Properties	×
Networking Authentication Sharing	
Connect using:	
Realtek USB GbE Family Controller	
Config	ure
This connection uses the following items:	
Client for Microsoft Networks	^
File and Printer Sharing for Microsoft Networks	
QoS Packet Scheduler	
Juniper Network Service	
Microsoft Network Adapter Multiplevor Protocol	
Microsoft LLDP Protocol Driver	~
<	>
Install Uninstall Proper	ties
Description	
Transmission Control Protocol/Internet Protocol. The def wide area network protocol that provides communication	ault
across diverse interconnected networks.	
ОК	Cancel



8. Input IP properties and save (OK).

Internet Protocol Version 4 (TCP/IPv4)	Properties	Х
General		
You can get IP settings assigned autor this capability. Otherwise, you need to for the appropriate IP settings.	natically if your network supports ask your network administrator	
Obtain an IP address automatical	У	
• Use the following IP address:		- 1
IP address:	192.168.5.10	
Subnet mask:	255 . 255 . 255 . 0	
Default gateway:		
Obtain DNS server address autom	natically	
• Use the following DNS server add	resses:	- 1
Preferred DNS server:		
Alternate DNS server:		
Validate settings upon exit	Advanced	
	OK Cance	I

## MAC OS:

- 1. Navigate to System Preferences (either from your dock or by clicking the Apple menu at the top of your screen.
- Select Network
  Select your Ethernet connection from the left list menu
  Change the Configure IPv4 to "Manually"
  Input IP properties and Apply.

System Preferences	Edit View Window Help	
•• < >	Network	Q. Search
Loca	ion: Automatic	0
Wi-Fi  Image: Connected    Ethernet  Image: Connected	Status: Connected currently acti 192.168.30.1.	3.0 to Gigabit Ethernet is re and has the IP address
	Configure IPv4: Manually	0
	IP Address: 192.168.5.1	0
	Subnet Mask: 255.255.2	55.0
	Router:	
	DNS Server:	
	Search Domains:	
&-		Advanced
	Ass	ist Me Revert App



## Ports and Whitelisting:

Port 80 (HTTP) or Port 443 (HTTPS) with full access to api.traxxekg.com must be open/configured.

Static IP addresses for api.traxxekg.com: 34.209.13.39, 35.155.85.162, or 52.27.148.178

An explicit HTTP proxy is configurable via the DeviceLink Connect Commissioner application (Cloud menu).